91st SEAC-3 Meeting Day 01

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for Proposed building construction project

Is a Violation Case: No

1.Name of Project	'Eves Garden'
2.Type of institution	Private
3.Name of Project Proponent	M/s. Sancheti Properties (Mr. Kishor Sancheti)
4.Name of Consultant	Sneha Hi-Tech products
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	Environmental Clearance Obtained on 6th Oct. 2015 for total built-up area of 53,505.06 m2 .
8.Location of the project	S. No. 34/1A/1
9.Taluka	Haveli
10.Village	Keshav Nagar, Mundhwa
Correspondence Name:	Mr. Kishor Sancheti
Room Number:	401
Floor:	--
Building Name:	Renata Chambers
Road/Street Name:	N. C. Phadke Chowk
Locality:	2145, Sadashiv Peth
City:	Pune- 411030
11.Whether in Corporation / Municipal / other area	Previously it was in PMRDA, now it comes under PMC
12.IOD/IOA/Concession/Plan Approval Number	Our plan was approved for the permissible FSI area of 26,719.11 m2 on 19th January 2015. Now the application for revised sanction was made.
	IOD/IOA/Concession/Plan Approval Number: Earlier Plan Approval number PMN/NA/SR/520/14. Revised sanction yet to approve.
	Approved Built-up Area: 53505.06
13.Note on the initiated work (If applicable)	7 nos. of building were already constructed on site as per EC obtained in 2015. Building D was completed up to 8 floors.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	23000 m2
16.Deductions	646.36 m2
17.Net Plot area	22353.64 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 28139.19 m2
	b) Non FSI area (sq. m.): 28499.04 m2
	c) Total BUA area (sq. m.): 56638.23
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 25941.26
	Approved Non FSI area (sq. m.): 27563.80
	Date of Approval: 19-01-2015
19.Total ground coverage (m2)	3,462.41 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	15.05 %
21.Estimated cost of the project	50000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Bldg. A	G/P+Stilt+9 Floors	31.79 m
2	Bldg. B1	LP+UP+11 Floors	35.95 m
3	Bldg. B2	LP+UP+11 Floors	35.95 m
4	Bldg. B3	LP+UP+11 Floors	35.95 m
5	Bldg. B4	LP+UP+11 Floors	35.95 m
6	Bldg. C1	LP+UP+11 Floors	35.95 m
7	Bldg. C2	LP+UP+11 Floors	35.95 m
8	Bldg. D	LP+UP+11 Floors	35.95 m
9	Bldg. E	LP+UP+6 Floors	23.11m

23.Number of tenants and shops	Total tenants: 504 Nos., Shops: 11
24.Number of expected residents / users	Residential users: 2520 persons ; Commercial users: 82
25.Tenant density per hectare	450 Tenant/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 wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	7 nos. of building were already constructed on site as per EC obtained in 2015. Building D was completed up to 8 floors.
30.Details of the demolition with disposal (If applicable)	No , The project does not involve any demolition work

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Earlier: Grampanchayat/ PMRDA , Current: PMC
	Fresh water (CMD):	229 m3/day
	Recycled water - Flushing (CMD):	115 m3/day
	Recycled water - Gardening (CMD):	11 m3/day
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	355 m3/day
	Fire fighting - Underground water tank(CMD):	250 m3
	Fire fighting - Overhead water tank(CMD):	20 cum per building
	Excess treated water	192 m3/day
Wet season:	**Source of water**	Earlier: Grampanchayat/ PMRDA , Current: PMC
	Fresh water (CMD):	229 m3/day
	Recycled water - Flushing (CMD):	115 m3/day
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	344 m3/day
	Fire fighting - Underground water tank(CMD):	250 m3
	Fire fighting - Overhead water tank(CMD):	20 cum per building
	Excess treated water	203 m3/day
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	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:**	Summer Season – 18.67 m. to 23.23 m. BGL. (20.35 M. Average), Rainy Season – 7.67 m. to 13.13 m BGL. (10.40 M. Average), Winter Season – 13.17 m. to 18.18 m. BGL. (15.68 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	Total 11 Nos. (9 existing & 2 proposed)
	Size of recharge pits :	a) 7 Nos. of 2.0 m. x 2.0 m. x 2.0 m. (Existing) b) 1 Nos. of 3.0 m. x 3.0 m. x 3.0 m. (Existing) c) 3 Nos. of 4.5 m. x 1.5 m. x 2.0 m.(Proposed)
	Budgetary allocation (Capital cost) :	Rs.13.74 Lakhs
	Budgetary allocation (O & M cost) :	Rs.1.8 Lakhs/annum
	Details of UGT tanks if any :	Fire Tank: 250 m3 Domestic water Tank: 343 m3 Flushing water Tank: 116 m3
35.Storm water drainage	**Natural water drainage pattern:**	As per Contour
	Quantity of storm water:	822.25 m3/hr
	Size of SWD:	Diameter : 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	320 m3/day
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of 320 m3/day
	Location & area of the STP:	On Ground
	Budgetary allocation (Capital cost):	Rs. 60 Lakhs
	Budgetary allocation (O & M cost):	Rs. 22 Lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	12.5 kg/day by labourers
	Disposal of the construction waste debris:	Construction debris, Waste concrete and broken bricks will be utilized in low-land leveling, secondary concrete, below roads. Some quantity of excavation soil will be used for backfilling and remaining will be hand over to authorize vendor .
Waste generation in the operation Phase:	**Dry waste:**	461.8 kg/day
	Wet waste:	692.7 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	30 kg/day
	Others if any:	E-waste: 1301 kg/annum

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling and disposal.
	Wet waste:	Will be converted to compost using Organic Waste Convertor [OWC].
	Hazardous waste:	Handed over to authorized vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure for gardening
	Others if any:	E waste: Sale to authorized vendor
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	35 m2
	Area for machinery:	35 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 25 Lakhs
	O & M cost:	Rs. 6 Lakhs/Annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	On Ground: 2899.96 m2, Raised Garden: 400.56 m2, Total: 3,300.52 m2.
	No of trees to be cut :	NA
	Number of trees to be planted :	5
	List of proposed native trees :	All native trees proposed which are listed below.
	Timeline for completion of plantation :	98% of required trees were already plated on site while remaining 2 % will be planted 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	Saraca asoka	Sita Ashok	12	Shady tree with red-yellow flowers
2	Bauhinia purpurea	Rakta kanchan	16	Fast growing flowering plant, butterfly host plant, Suitable for avenue planting
3	Azadiracta indica	Neem	30	Evergreen fast growing shady tree
4	Cassia fistula	Bahava	30	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
5	Michelia chamapca	Sonchafa	54	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
6	Tabebuia avellanedae	Tabebuia pink	22	Large deciduous flowering tree.
7	Langerstroemia indica	Crape Myrtle	30	Flowering bird attracting tree
8	Cocos nucifera	Coconut	07	Tall tree bearing woody fruit
9	Plumeria alba	Chafa	09 + 05	Evergreen ornamental tree
10	Mangifera indica	Mango	20	Fruit bearing, evergreen & commercial value
11	Psdum guafava	Guava	25	Fruit bearing , Ever green
12	Manikara cumini	Chikku	25	Fruit bearing , Ever green
13	NA	TOTAL	285	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	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Ltd (MSEDCL)
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	1 nos. x 40 KVA
	During Operation phase (Connected load):	3,304.2 KVA
	During Operation phase (Demand load):	2,432.5 KVA
	Transformer:	4 nos. x 630 KVA
	DG set as Power back-up during operation phase:	1 x 160 KVA , 1 x 125 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Auto Timer control for external & Common lighting
2. Use of CFL / LED lamps in all public/ common areas
3. Solar powered water heating
4. Electronic V3F Drives for Elevators
5. Solar PV Panel power for common area lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels	4,050 KWH / Annum
2	Timer Logic Controller	31,151 KWH / Annum
3	Electronic V3F drive for Lifts	24,506 KWH / Annum
4	Solar Water Heater	9,16,980 KWH / Annum
5	TOTAL	9,76,687 KWH / Annum (10.36% 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:**	Rs. 108.12 Lakhs
	O & M cost:	Rs. 3.04 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	To control air pollution	Water For Dust Suppression	2

2	To maintain hygienic condition	Site Sanitation & Safety	1.5
3	Air, water, noise and soil analysis	Environmental Monitoring	2
4	To check fitness of workers	Health Check Up	2
5	To maintain hygiene	Disinfection	1.5
6	To prepare team for environmental management	Environment Management cell	5.4
7	NA	TOTAL	14.4

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	To harvest rain water	13.74	1.8
2	Sewage Treatment Plant	To treat sewage	60	22
3	Organic Waste Composting	To treat biodegradable solid waste	25	6
4	Tree Plantation	For green belt development	52	15
5	Energy saving	For use of solar lighting and solar heater	108.12	3.04
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	70	10.5
8	Laying of Sewer line up to final disposal point	For proper disposal of sewage	57	8.55
9	Environment Management Cell	To manage environmental issues	--	7.8
10	NA	TOTAL	385.86	77.69

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 Manjari Road
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	10,090 m2
	Area per car:	30 m2
	Area per car:	30 m2
	Number of 2-Wheelers as approved by competent authority:	Scooters: 781 ; Provided: 781 nos.
	Number of 4-Wheelers as approved by competent authority:	Cars: 158 ; provided: 158
	Public Transport:	NA
	Width of all Internal roads (m):	6 m road
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a), B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 23000 m2, FSI area of 28139.19 m2, Non FSI area of 28499.04 m2 and total BUA of 56638.23 m2.

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

DECISION OF SEAC

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

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

91st SEAC-3 Meeting Day 01

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for Expansion of Residential project "Anjor" at S. no. 88+65, Virbhadranagar, Near Ganraj mangal Karyalaya, Baner, Pune by M/s. New Front Developers

Is a Violation Case: No

1.Name of Project	Expansion of Residential project "Anjor" at S. no. 88+65, Virbhadranagar, Near Ganraj mangal Karyalaya, Baner, Pune by M/s. New Front Developers
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mukund Deshpande
4.Name of Consultant	-
5.Type of project	Residential
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. EC vide letter no. SEAC-2010/CR.416/TC.2 dated 31st January, 2011.
8.Location of the project	S. no. 88+65, Virbhadranagar, Near Ganraj mangal Karyalaya, Baner, Pune
9.Taluka	Haveli
10.Village	Baner
Correspondence Name:	Ms. Rupali Phanase
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	Shivajinagar
Locality:	Shivajinagar
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: CC/3542/18 dated 13.02.2019
	Approved Built-up Area: 38129.8
13.Note on the initiated work (If applicable)	Total constructed area on site as per EC : 33742.08 sq. m (FSI 20314.12 sq. m + Non FSI 13427.96 sq. m)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	23322.00 sq. m
16.Deductions	7138.35 sq. m
17.Net Plot area	16183.65 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 23217.9 sq. m
	b) Non FSI area (sq. m.): 14911.9 sq. m
	c) Total BUA area (sq. m.): 38129.8
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 23217.9 sq. m
	Approved Non FSI area (sq. m.): 14911.9 sq. m
	Date of Approval: 13-02-2019
19.Total ground coverage (m2)	3367.81 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.60 %
21.Estimated cost of the project	155000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	B + G +9 floors	29.25 mtr.
2	Building B	B + G +9 floors	29.25 mtr.
3	Building C	B + G +9 floors	29.25 mtr.
4	Building D	B + G +9 floors	29.25 mtr.
5	Building E	G +9 floors	28.50 mtr.
6	Building F	G + 11 floors	35.95 mtr.
7	Building G	P + 10 floors	36.00 mtr.

23.Number of tenants and shops	Residential : 243 no's (Existing 223 + Proposed 20)
24.Number of expected residents / users	Residential population : 1215
25.Tenant density per hectare	250 ha.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Existing 6.00 m approach road to internal 9.00 m road to the nearest fire station at Aundh & Pashan.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00
29.Existing structure (s) if any	Bldg A to F are constructed 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**	PMC
	Fresh water (CMD):	114
	Recycled water - Flushing (CMD):	55
	Recycled water - Gardening (CMD):	14
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	193
	Fire fighting - Underground water tank(CMD):	350
	Fire fighting - Overhead water tank(CMD):	140
	Excess treated water	64.35
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	114
	Recycled water - Flushing (CMD):	55
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	179
	Fire fighting - Underground water tank(CMD):	350
	Fire fighting - Overhead water tank(CMD):	140
	Excess treated water	78.35
Details of Swimming pool (If any)	• Area of Swimming Pool: 104 sq. m • Capital Cost: Rs. 11,00,000 /- • O & M cost: - Rs. 1,70,000 /- per 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 – 15 to 20 mt BGL Post monsoon – 5 to 7 mt. BGL
	Size and no of RWH tank(s) and Quantity:	1 tank provided of capacity 900 cu. ft
	Location of the RWH tank(s):	Shown in plan
	Quantity of recharge pits:	15 no's
	Size of recharge pits :	1.20 X 2.00 X 1.20 MTR.
	Budgetary allocation (Capital cost) :	Rs. 7,50,000 /-
	Budgetary allocation (O & M cost) :	Rs. 15,000 /- per year
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 180 KLD Flushing tank Capacity(cum) : 50 KLD Fire UG tank Capacity (cum) : 350 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	17 m3 / min.
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	148.03 KLD
	STP technology:	Activated Sludge Process
	Capacity of STP (CMD):	175 KLD
	Location & area of the STP:	Area : 120 sq. m
	Budgetary allocation (Capital cost):	Rs. 32,00,000 /-
	Budgetary allocation (O & M cost):	Rs. 6,50,000 /- per year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 kg/day
	Disposal of the construction waste debris:	Will be used in site premises
Waste generation in the operation Phase:	**Dry waste:**	243 kg/day
	Wet waste:	365 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	47 kg/day
	Others if any:	E-waste : 1.66 kg/day

Mode of Disposal of waste:	**Dry waste:**	To authorized vendor
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as a manure
	Others if any:	E-waste will be handed over to To authorized vendor
Area requirement:	**Location(s):**	Shown in plan
	Area for the storage of waste & other material:	Area : 40 sq. m
	Area for machinery:	Considered in above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 9,00,000 /-
	O & M cost:	Rs. 2,70,000 /- per 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 :**	Total RG area required (10 %) : 2257.60 sq. m Total RG area provided (10.01 %) : 2262 sq. M
	No of trees to be cut :	0
	Number of trees to be planted :	370 (Existing as per earlier EC 320 + Proposed 50)
	List of proposed native trees :	Provided below
	Timeline for completion of plantation :	Up to completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirchata indica	Neem	16	Medicinal value, it purifies air, Shade giving tree, Pollution Tolerant.
2	Anthocephalous Kadamba	Kadamba	18	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
3	Bauhinia blackiana	kanchanraj	12	Well flowering plant, used as a specimen or group plantation, Ornamental Value.
4	Cassia fistula	bahawa	18	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
5	Ficus glomerata	Umber	05	Bird attracting, shade giving tree, Fruits are edible, Medicinal Value, leaves are used to control pests.
6	Bauhinia purpurea	Gulabi-Kanchan	08	Evergreen tree, Ornamental Value, Shade giving tree, To control soil erosion, medicinal value.
7	Butea monosperma	palas	06	Deciduous tree, leaves are used for making leaf plates and cups and beedi wrapping. The flowers are used to prepare a traditional Holi colors.
8	Mangifera indica	Mango	54	Fruits are edible, Shade giving tree, Evergreen tree, Medicinal Value, wood is used to making musical instrument & furniture., Avenue plantation.
9	Saraca indica	Ashoka	05	Evergreen tree, Medicinal Value, Shade Giving tree, Ornamental Value.
10	Syzygium cumini	jambhul	05	Fruits are edible, Medicinal Value, for strong heavy timber and good fuelwood, , Shade giving tree.
11	Tamarindus indica	Chinch	05	Fruits are edible, Shade giving tree, Medicinal value, Ornamental Value, Suitable for Boundary planting.

12	Phyllanthus emblica	Awala	06	Edible fruit rich in vitamin C , Medicinal Value, ingredients used in shampoos, oil, candy , pickle, jellies, powder, dying industries.
13	Swietenia mahogany	Mahogany	28	Medicinal Value, planted for its hardy wood,Ornamental Value.
14	Nyctanthes arbortristic	parijatak	23	Seed yield a fixed oil, Powdered seeds used for scurfy affections of the scalp, medicinal value.
15	Tabebuia rosea	Tumpet tree	09	Deciduous tree with spreading crown, specimen tree, can be used for mass plantation
16	Pongamia pinnata	karanj	06	Medicinal Value , Shade giving tree, Avenue Planting, nitrogen fixing ability.
17	Murraya Koengii	Kadipatta	20	Medicinal value, leaves used for flavouring, Ornamental plants.
18	Aegle marmelos	Bel	06	Medicinal value, leaves used in pooja, can be used in landscape with good effects, Fruit is edible.
19	Mimusops elengii	Bakul	06	Evergreen tree, used for Group plantation, Fruit is edible, Medicinal value.
20	Michelia champaca	Sonchafa	06	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
21	Erythrina indica	Pangara	05	Fast growing deciduous tree, Ornamental Value, It is very important as a support plant for crops such as betel, black pepper, jasmine, grape and yams, Shade giving tree.
22	Citrus lemonica	Lemon	19	Fruit juice rich in vitamin C, Medicinal value.
23	Anona reticulata	Ramphal	03	Fruit are edible, Medicinal value.
24	Bombax ceiba	katesawar	07	Large deciduous tree, Flowers attracts many birds
25	Elaeocarpus sphaericus	Rudraksha	03	Evergreen tree, used in jwellery making, medicinal value, ornamental.
26	Ficus benghalensis	Wad	01	Ornamental value, Shade giving tree, Medicinal Value, Suitable for specimen tree & boundary plantation
27	Murraya paniculata	Kunti	05	Small tree, Fragrant white flower, butterfly host plant
28	Ficus religiosa	Pimpal	02	Ornamental value, Shade giving tree, Medicinal Value, Suitable for specimen tree & boundary plantation
29	Terminalia arjuna	Arjun	08	Evergreen tree, , Medicinal Value, Suitable for wood is very hardy used in making agricultural implements, boat & house making.

30	Santalum albun	Chandan	01	Wood & oil is used in medicine, wood has great market value. The plant has special significance in Hindu devotional practice
31	Holoptelia integrifolia	wawal	03	Wood & oil is used in medicine, wood has great market value. The plant has special significance in Hindu devotional practice
32	Memcylon umbellatum	Anjani	01	The plant use as a food, medicine and source of materials. It is often grown as an ornamental, valued especially for its floral display, wood has a good fuel value.
33	Ailanthus Excelsa	Maharukh	05	Medicinal value, Shade giving tree, Deciduous tree, used in matchstick industry. It is used as fodder for goats in India
34	Albizzia Lebek	Shirish	05	Used for medicine and wood, , Shade giving tree, valued honey tree because of its production of both nectar and pollen.
35	Dalbergia Shisoo	Shisav	05	It's a most prized timber tree, Shade giving & to control soil erosion & soil fertility, Ornamental tree.
36	Ficus arnottiana	payar	05	Deciduous tree, Medicinal value, Shade giving tree.
37	Ficus microcarpa	Nandruk	05	Ornamental value, Shade giving tree, Medicinal Value, Suitable for Boundary planting
38	Artocarpus integrifolia	Fanas	05	Shade giving tree, bird attracting, fruit bearing tree, Edible fruit, Medicinal Value.
39	Putranjiva roxburghii	Putranjiva	05	Evergreen tree , Medicinal value, tree has nice cascading look , shade giving tree. Ornamental plant.
40	Gemelina arborea	Shivan	05	Fast growing deciduous tree, Ornamental Value, wood is of best quality,
41	Cochlospermum religiosum	Sonaswar	05	Specimen tree, Medicinal Value, used for the its gum., Suitable for Boundary planting.
42	Cordia dichotoma	Bhokar	05	Fast Growing tree, Butterfly attracting, Suitable for Boundary planting.
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)	20 KW
	DG set as Power back-up during construction phase	30 KVA
	During Operation phase (Connected load):	1561 KW, 1951 KVA
	During Operation phase (Demand load):	998 KW, 1247 KVA
	Transformer:	2 x 630 KVA
	DG set as Power back-up during operation phase:	125 KVA & 62.5 KVA
	Fuel used:	Diesel 125 KVA DG : 23.20 liters. /hr. 62.5 KVA DG: 13.64 liters. /hr.
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED lightening + Solar street lights + Solar hot water + Solar PV	19 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 55, 59,000 /-
	O & M cost:	Rs. 2,77,000 /- per year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-

2	land	Site Sanitation	Rs. 26,500 /-
3	Health & safety	Site Safety	Rs.88,000 /-
4	Environment management	Environmental Monitoring	Rs. 1,20,000 /-
5	Health & safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	Rs. 32,00,000 /-	Rs. 32,00,000 /-
2	Rain Water Harvesting	15 no's of pits	Rs. 7,50,000 /-	Rs. 15,000 /-
3	Solid Waste Management	1 OWC	Rs. 9,00,000 /-	Rs. 2,70,000 /-
4	Green Belt Development	370 (Existing as per earlier EC 320 + Proposed 50)	Rs. 1,87,60,200 /-	Rs. 30,01,632 /-
5	Energy details	Solar system	Rs. 55,59,000 /-	Rs. 2,77,000 /-
6	Environmental Monitoring	-	MoEFCC approved laboratory	Rs. 8,90,000 /-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Existing 6.00 m approach road to internal 9.00 m road

Parking details:	**Number and area of basement:**	1 connected basement area : 4995 sq. m
	Number and area of podia:	No
	Total Parking area:	13073.71 sq. m
	Area per car:	12.5 sq. M as per DC rule
	Area per car:	12.5 sq. M as per DC rule
	Number of 2-Wheelers as approved by competent authority:	Scooter -488 , cycles -488
	Number of 4-Wheelers as approved by competent authority:	249
	Public Transport:	Pune City buses
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	NA
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 23322.00 m2, FSI area of 23217.9 m2, Non FSI area of 14911.9 m2 and total BUA of 38129.8 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 88th meeting of SEAC-3.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

91st SEAC-3 Meeting Day 01

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for Environment Clearance for Expansion of proposed Residential Project - Kumar Prithvi at S. No. 45/1 + 2 (2P), 46/13A/2, Village Kondhwa, Tal. Haveli, Dist. Pune, Maharashtra by Sukumar Township Development Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Expansion of proposed Residential & Commercial Project -
2.Type of institution	Private
3.Name of Project Proponent	Sukumar Township Development Pvt. Ltd.
4.Name of Consultant	Enviro Analysts & Engineers Pvt. Ltd.
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	EC received vide letter no. SEAC-2011/CR.616/TC.2 dtd 19th November 2011
8.Location of the project	S. No. 45/1 + 2 (2P), 46/13A/2, Village Kondhwa, Tal. Haveli, Dist. Pune, Maharashtra
9.Taluka	Haveli
10.Village	Kondhwa, Khurd
Correspondence Name:	Sukumar Township Development Pvt. Ltd
Room Number:	-
Floor:	-
Building Name:	Kumar Capital
Road/Street Name:	East Street
Locality:	Camp
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: Approval no 2540/13dtd 2.11.2013
	Approved Built-up Area: 65740.52
13.Note on the initiated work (If applicable)	PP has built 3 Bldgs of P + 7 floors before 2004. Further, initiated the work of 5 Bldgs of P + 9 floors and 1 Bldg of P + 18 floors also and completed.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	47,800.00
16.Deductions	16925.47
17.Net Plot area	30874.53
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 51828.68
	b) Non FSI area (sq. m.): 42302.57
	c) Total BUA area (sq. m.): 94131.25
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 32240.97
	Approved Non FSI area (sq. m.): 33499.55
	Date of Approval: 01-11-2013
19.Total ground coverage (m2)	13565.90
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28.00 %
21.Estimated cost of the project	1939800000.00

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	5 buildings	P + 9 floors	29.30
2	1 building	P + 18 floors	58.50
3	2 buildings	B1 + B2 + P + 18 floors	58.50
4	Community Hall	Gr floor	6.00
5	Commercial	P + G + 2 floors	12.05
6	Clubhouse	Gr + 1 floor	6.00
7	Construction before 2004 - 3 buildings	P + 7 floors	23.90

23.Number of tenants and shops	Existing prior to 2004: 84 No's Proposed:486 No's. Total : 570 No's Shops: 265.95 Sq.m
24.Number of expected residents / users	Existing prior to 2004: 420 No's , Proposed: 2430 No's, Shops: 88 No's, Total: 2938 No's
25.Tenant density per hectare	185 tenant density/hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.00 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.0 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	Water Tank (6m X 6m X 4m) – Demolished & Rubble used for Plinth Filling.

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/ Treated Water from STP
	Fresh water (CMD):	220 KLD
	Recycled water - Flushing (CMD):	112 KLD
	Recycled water - Gardening (CMD):	22 KLD
	Swimming pool make up (Cum):	6KLD
	Total Water Requirement (CMD) :	354 KLD
	Fire fighting - Underground water tank(CMD):	-
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	164 KLD
Wet season:	**Source of water**	PMC/ Treated Water from STP
	Fresh water (CMD):	220 KLD
	Recycled water - Flushing (CMD):	112 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	6KLD
	Total Water Requirement (CMD) :	332 KLD
	Fire fighting - Underground water tank(CMD):	-
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	186 KLD
Details of Swimming pool (If any)	Dimension of Swimming Pool: Swimming Pool Phase – I: 14.00 x 7.5 x 1.20 Total water Requirement: 14 m3 Water requirement for make up: 6 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:**	15 – 20 m
	Size and no of RWH tank(s) and Quantity:	Nil
	Location of the RWH tank(s):	Nil
	Quantity of recharge pits:	16 nos.
	Size of recharge pits :	1.8 m X 1.2 m x 2 m
	Budgetary allocation (Capital cost) :	Rs 10 Lakhs
	Budgetary allocation (O & M cost) :	Rs 0.5 Lakhs/Annum
	Details of UGT tanks if any :	Domestic UG tank Capacity: 220 cum Flushing UG Tank Capacity: 112 cum
35.Storm water drainage	**Natural water drainage pattern:**	East to West
	Quantity of storm water:	0.25 cum/sec
	Size of SWD:	0.45 M Width 0.45 M Depth
Sewage and Waste water	**Sewage generation in KLD:**	295 KLD
	STP technology:	SMBR & MBBR
	Capacity of STP (CMD):	315 KLD(115 KLD SMBR type STP already installed & 200 KLD is proposed.)
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	Rs. 65 Lakhs
	Budgetary allocation (O & M cost):	Rs. 10 lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Top soil to be preserved for landscaping
	Disposal of the construction waste debris:	The total quantity of the excavated soil will be used for land filling, and surplus will be sent to authorize dumping sites. Scrap material will be sold to recyclers
Waste generation in the operation Phase:	**Dry waste:**	570 kg/day
	Wet waste:	855 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	14 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handover to Authorized Dealers.
	Wet waste:	Will be processed in the OWC &manure so obtained will be used for landscaping.
	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
	Area for the storage of waste & other material:	100 sq.m
	Area for machinery:	3 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 6.0 Lakhs
	O & M cost:	Rs. 2 lakhs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	3617.86 sq.m
	No of trees to be cut :	-
	Number of trees to be planted :	455 nos.
	List of proposed native trees :	as listed below
	Timeline for completion of plantation :	by the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mimusopselengi	Bakul	15	Evergreen tree
2	Cassia fistula	Bahava	20	Flowering tree
3	Azardirachta indica	Neem	20	Medicinal tree
4	Plumeria alba	Franjipani	18	Flowering tree
5	Lagerstroemia speciosa	Pride of india	20	Flowering tree
6	Saracaasoca	Sita Ashoka	27	sacred trees
7	Millingtonia hortensis	Indian cork tree	22	Flowering tree
8	Caryotaurens	Fishtail palm	23	Shady tree
9	Mangifera indica	Mango	25	Fruiting tree
10	Artocarpushetero phyllus	Jackfruit	30	Fruiting tree
11	Artocarpushetero phyllus	Jackfruit	30	Fruiting tree
12	Pongamia pinnata	Karanj	15	Evergreen tree
13	Nyctanthesarbor-tristis	Parijatak	20	Flowering tree
14	Anthocephallus cadamba	Kadamba	25	Flowering tree
15	Bauhinia purpurea	Butterfly tree	18	Flowering tree
16	Khayagrandis	Khaya	25	Evergreen tree
17	Albizia lebbeck	Shirish	28	Flowering tree
18	Ficus bengalensis	Banyan tree	10	Evergreen tree
19	Erythrina indica	Pangara	15	Flowering tree
20	Bahunia tomentosa	Yellow orchid tree	10	Flowering tree
21	Michalia champaca	Soan chaffa	32	Flowering tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	80 kW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	7678.6 kW
	During Operation phase (Demand load):	1539.5 kW
	Transformer:	6 Nos. X 630 KVA
	DG set as Power back-up during operation phase:	125 KVA - 1 No, 50 KVA - 1 No, 250 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:

-

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy savings	11.01 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 90 Lakhs
	O & M cost:	Rs.4 Lakhs/yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Development,Covered storagearea	4
2	Noise Environment	Noise Baricades and Green Belt Developments	3
3	Water Environment	Modular STP ,Drainage with sedimentation tanks	3

4	Good Health Practices	Site Sanitation & Health Care	3
5	Environment Monitoring	Air,water,noise,soil monitoring during construction phase	3

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	solid waste management	OWC	6	2
2	waste water management	STP	65	10
3	energy	solar savings	90	4
4	RWH system	RWH	10	0.5
5	Landscape	Greenbelt	17	3

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 no. of entry & exit from 12 m wide DP road

Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	12757
	Total Parking area:	29040
	Area per car:	34
	Area per car:	34
	Number of 2-Wheelers as approved by competent authority:	1254
	Number of 4-Wheelers as approved by competent authority:	847
	Public Transport:	Nil
	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	Schedule 8 (a), Category B
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	04-07-2017

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
16.Deductions (sq. m.):	16925.47	17065.23
17.Net Plot area (sq. m.):	30874.53	27116.91
18 (a).Proposed Built-up Area (FSI & Non-FSI)	--	--
FSI area (sq. m.):	51828.68	56252.24
Non FSI area (sq. m.):	42302.57	40389.26

Total BUA area (sq. m.):	94131.25	96641.5
19.Total ground coverage (m2)	13565.9	15210
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28	31
23.Number of tenants and shops	Existing prior to 2004: 84 No's Proposed: 486 No's. Total : 570 No's Shops: 265.95Sq.m	Existing prior to 2004: 84 No's Proposed: 570 No's. Total : 654 No's Shops: 264.97 Sq.m
24.Number of expected residents / users	Existing prior to 2004: 420 No's Proposed: 2430 No's. shops 88 Nos. Total : 2938 No's	3357 No's (including commercial)
25.Tenant density per hectare	185	218
32- Total water Requirement	--	--
Dry Season	--	--
Fresh water (CMD):	220	296
Recycled water - Flushing (CMD):	112	149
Swimming pool make up (Cum):	6	14
Total Water Requirement (CMD)	354	481
Excess treated water	164	180
wet season	--	--
Fresh water (CMD):	220	296
Recycled water - Flushing (CMD):	112	149
Swimming pool make up (Cum):	6	14
Total Water Requirement (CMD)	332	459
Excess treated water	186	220
Details of Swimming pool (If any)	Swimming Pool Phase – I: 14x7.5x1.2.= 2 Nos. Total water Requirement: 14 m3 Water requirement for make up: 6 m3/day	Swimming Pool Phase – I: 38x18x4 ft.= 2 Nos. Total water Requirement: 155 m3 Water requirement for make up: 14 m3/day
36.Sewage and Waste water	--	--
Sewage generation in KLD:	295	350
Capacity of STP (CMD):	315 KLD (115 KLD SMBR type STP already installed & 200 KLD is proposed)	3 Nos. (115 KLD SMBR type STP already installed, 70 KLD and 185 KLD is proposed.)
Budgetary allocation (Capital cost):	Rs. 65.00 Lakhs	Rs. 72.95 Lakhs
Budgetary allocation (O & M cost):	Rs. 10.00 lakhs/annum	Rs. 18.23 lakhs/annum
37.Solid waste Management	--	--
Dry waste:	570 kg/day	599 kg/day
Wet waste:	855 kg/day	890 kg/day

48.Energy	--	--
During Operation phase (Connected load):	7678.6	8656 kW
During Operation phase (Demand load):	1539.5	2439 kW
Transformer:	6 Nos. X 630 KVA	7 Nos. X 630 KVA
DG set as Power back-up during operation phase:	125 kva-1 N0., 50 KVA-1 No.,	2 Nos. (425 kVA 1 No., 126 kVA 1 No.)
50.Detail calculations & % of saving:	--	--
Total energy savings	11.01	11.40
52.Environmental Management plan Budgetary Allocation	--	--
b) Operation Phase (with Break-up):	--	--
STP	--	--
Capital cost	Rs. 65.00 Lakhs	Capital cost:Rs. 72.95
O & M cost	Rs. 10.00 lakhs/annum	O & M cost: Rs. 18.23

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 47,800.00 m2, FSI area of 51828.68 m2, Non FSI area of 42302.57 m2 and total BUA of 94131.25 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit the Plan showing alignment of storm water drain, the depth along with chambers and final disposal point & section through the internal road. showing place left for planting of trees. Sewage water drain internal road and space left between, building & internal Road.

2. PP to obtain and submit following NOC's: (a) CFO NOC, (b) Water supply with quantity.

3. PP to submit ecological damage assessment in terms of embodied energy and global sectors with LCA approach and with applicable coefficient ultimately reporting in terms of cost. PP to submit carbon foot print report.

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

Specific Conditions by SEAC:

1) -

FINAL RECOMMENDATION

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

91st SEAC-3 Meeting Day 01

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for Construction project

Is a Violation Case: No

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

22.Number of buildings & its configuration

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

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

31.Production Details

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

32.Total Water Requirement

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

33.Details of Total water consumed

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

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

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

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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

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

20	Bauhinia purpurea	Gulabi kanchan	12	Every part of the plant is medicinal ,Drought tolerant species.
21	Butea monosperma	Palas	12	Medicinal value, Bird attracting species , To control soil erosion.
22	Cassia fistula	Bahawa	12	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
23	Choclospermum religiosum	Sonsawar	12	Medicinal value, Native species
24	Cordia dichotoma	Bhokar	12	Medicinal value, Edible fruits,
25	Dalbergia sisoo	Shisav	16	Medicinal value, Bird attracting species ,
26	Ficus arnottiana	Payar	16	Drought tolerant species, Bird attracting species. To control soil erosion
27	Ficus glomerata	Umber	16	Medicinal value, Edible fruits, Bird attracting species
28	Ficus retusa	Nandruk	14	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.
29	Mangifera indica	Mango	08	Edible fruit, Bird attracting species.
30	Michelia champaca	Sonchaffa	08	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
31	Pongamia pinnata	Karanj	08	Medicinal value, Drought tolerant species, To control soil erosion. Hardy plant.
32	Syzygium cumini	Jamun	08	Medicinal value, Edible fruit.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Nerium single pink	1’6”	1.8
2	Adulsa	1’6”	1.8
3	Tarwad	1’0”	1.8
4	Chitrak	1’0”	1.8
5	Variegated tagar	1’0”	1.8
6	Stachytarpheta Blue	1’0”	1.8
7	Stachytarpheta Red	1’0”	1.8
8	Ratrani	1’0”	1.8
9	Shrimp plant red	1’0”	1.8
10	Mogra	1’0”	1.8
11	Sontakka	1’0”	1.8
12	Powder puff dwarf	1’6”	1.8
13	Cassica biflora	1’0”	1.8
14	Ficus black	2’0”	1.8
15	Ficus starlight	2’0”	1.8

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

47.Energy

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

48.Energy saving by non-conventional method:

• Solar Water Heating Systems Will Be Done For Bathrooms.

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

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

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

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

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

• Energy Saving Achieved per Day – 38112 KWH

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

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

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 32930 m2, FSI area of 31518.44 m2, Non FSI area of 32058.60 m2 and total BUA of 63577.04 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 89th meeting of SEAC-3.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

91st SEAC-3 Meeting Day 01

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for Proposed Residential & Commercial Development project “Svannah” at Gat No.- 1211, 1213 to 1216, 1218, opp. Wagheswar Temple,Behind Moze Engg. College, BAIF Road, Wagholi, Pune by M/s. Sim Properties

Is a Violation Case: Yes

1.Name of Project	Proposed Residential & Commercial Development project “Svannah” at Gat No.- 1211, 1213 to 1216, 1218, opp. Wagheswar Temple,Behind Moze Engg. College, BAIF Road, Wagholi, Pune by M/s. Sim Properties
2.Type of institution	TOR
3.Name of Project Proponent	Mr. Sachin Bhandari
4.Name of Consultant	J M EnviroNet Pvt Ltd, Sayali Jagtap(EIA co-ordinator)-9960159156
5.Type of project	Residential & Commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Environment Clearance letter no. 21-955/2007-IA.III dated 21.04.2008
8.Location of the project	Gat No.- 1211, 1213 to 1216, 1218, opp. Wagheswar Temple,Behind Moze Engg. College, BAIF Road, Wagholi, Pune
9.Taluka	Haveli
10.Village	Wagholi
Correspondence Name:	Sayali Jagtap
Room Number:	F-3
Floor:	1st Floor
Building Name:	Dindayal Nagar
Road/Street Name:	Opp. Sai Sayaji Construction
Locality:	Katraj
City:	Pune
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Part sanction received.
	IOD/IOA/Concession/Plan Approval Number: Sanction no. PRH/NASR/974/14 dated 31.01.2015
	Approved Built-up Area: 55043.88
13.Note on the initiated work (If applicable)	Total constructed area on site : 39955.98 sq. m (FSI 28399.42 sq. m + Non FSI 11556.56 sq. m)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	47400 sq. m
16.Deductions	20540 sq. m
17.Net Plot area	26840 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 40140.68 sq.m
	b) Non FSI area (sq. m.): 23711.29 sq.m
	c) Total BUA area (sq. m.): 63851.97
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 40200.33 sq. m
	Approved Non FSI area (sq. m.): 14843.88 sq. m
	Date of Approval: 31-01-2015
19.Total ground coverage (m2)	6183.49 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.02 %

21.Estimated cost of the project	750000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	Parking + 7 floors	23.35 m
2	Wing B	Parking + 7 floors	23.35 m
3	Wing C	Parking + 7 floors	23.35 m
4	Wing D	Parking + 7 floors	23.35 m
5	Wing E	Parking + 7 floors	23.35 m
6	Wing F	Parking + 7 floors	23.35 m
7	Wing G	Parking + 7 floors	23.35 m
8	Wing H	Parking + 7 floors	23.35 m
9	Wing I	Parking + 7 floors	23.35 m
10	Wing J	Parking + 7 floors	23.35 m
11	Wing K	Parking + 7 floors	23.35 m
12	Wing L	Parking + Stilt + 10 floors	34.80 m
13	Wing M	Parking + Stilt + 07 floors	26.40 m
14	Wing N	Parking + Stilt + 07 floors	26.40 m
15	Wing O	Parking + Stilt + 07 floors	26.40 m
16	Wing P	Parking + Stilt + 11 floors	35.10 m
17	Wing Q	Parking + Stilt + 11 floors	35.10 m
18	Wing A1	Parking + 11 floors	35.10 m
19	Club house (2 no's)	Ground + 1 floor	5.90 m

23.Number of tenants and shops	Residential : 611 (Existing :446 nos.+ Proposed :165 nos) Commercial : 6 shops
24.Number of expected residents / users	Residential : 3055 nos.(Existing : 2230 + Proposed : 825) Floating population: 54 users.
25.Tenant density per hectare	644 /Ha , tenement 128/Hecatre
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 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	Wings A to K– P + 7 floors Wing L : P + S + 10 floors Wings M,N,O : P + S + 7 floors STP, Club house, OWC.
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**	Grampanchayat Wagholi
	Fresh water (CMD):	276.13
	Recycled water - Flushing (CMD):	138.95
	Recycled water - Gardening (CMD):	27
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	442.08
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	193.11
Wet season:	**Source of water**	Grampanchayat Wagholi
	Fresh water (CMD):	276.13
	Recycled water - Flushing (CMD):	138.95
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	415.08
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	193.11
Details of Swimming pool (If any)	• Dimension of Swimming Pool: 30X60 ft • Total water Requirement in KLD: 252.5 KLD • Water requirement for make up in KLD: 5 KLD • Details of Plant & Machinery used for treatment of Swimming pool water: • Capital Cost: Rs. 32,96,000 /- O & M cost: - Rs. 2,15,000 /-	

33.Details of Total water consumed

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

Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4.50 m to 7.50 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	08 no’s
	Size of recharge pits :	2 x 2 x 2 m
	Budgetary allocation (Capital cost) :	Rs. 6,50,000 /-
	Budgetary allocation (O & M cost) :	Rs. 70,000 /-
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 415 KLD Flushing tank Capacity(cum):209 KLD Fire UG tank Capacity (cum):450 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	20.04 m3/min
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	373.37 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	STP 1 (Existing) : 280 KLD STP 2 (Proposed) : 110 KLD
	Location & area of the STP:	STP 1 area : 140 sq. m STP 2 Area : 60 sq. m
	Budgetary allocation (Capital cost):	Rs. 1,75,00,000 /-
	Budgetary allocation (O & M cost):	Rs. 27,00,000 /-

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Within site
Waste generation in the operation Phase:	**Dry waste:**	620 kg/day
	Wet waste:	923 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	35.58 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	To authorized vendor
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure after treatment
	Others if any:	NA
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	16 m2
	Area for machinery:	48 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 25,75,000 /-
	O & M cost:	Rs. 5,82,533 /-

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 :**	Total RG area : 4461.50 Sq. m (10 %)
	No of trees to be cut :	0
	Number of trees to be planted :	0
	List of proposed native trees :	345 (Existing 126 + Proposed 219)
	Timeline for completion of plantation :	Up to completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Anthocephalus kadamba	Kadamba	50	Shade
2	brassia actinophylla	umbrella tree	10	ornamental
3	Bauhinea blackiana	kanchan	15	ornamental/ flowering
4	Crayota urens	fishtail palm	9	ornamental
5	Michelia champaca	son chafa	8	flowering
6	Plumeria alba	dev chafa	28	ornamental
7	Sweitiana mahogany	mohognoy	22	shade
8	Coconut dwarf	coconut	3	fruiting
9	Ficus benjamina	NA	19	soil retaining properties
10	Livistonia chiensis	table palm	5	ornamental
11	Oreodoxa regia	royal palm	6	ornamental
12	meligtonia hortensis	buch/ aakash neem	71	flowering
13	Cassia fistula	bahava	8	flowering
14	Azadirachta indica	neem	37	medicinal values
15	Tabebuia argentia	NA	18	flowering
16	Tabebuia rosea	NA	18	flowering
17	Filicum decipens	fern tree	7	ornamental
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	22 KW
	DG set as Power back-up during construction phase	30 KVA
	During Operation phase (Connected load):	Existing : 3209 KW Proposed : 824.52 KW
	During Operation phase (Demand load):	Existing : 1658.96 KVA Proposed : 411.35 KVA
	Transformer:	4 x 630 KVA
	DG set as Power back-up during operation phase:	180 KVA & 300 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

• Timers and contactors will be used to switch on / off common are & external landscape and facade lighting.
• 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.
• LED fittings will be used for corridors ,Lobbies and common areas.
• Energy efficient LED/CFL/T5 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.
• Solar PV panel system is proposed for Street lighting & Building common load.
• All cables will be derated to avoid heating during use. This also indirectly reduces losses and improves reliability. To achieve the same we have considered current carrying capacity of all the cables laid through ground/air whichever is minimum.
• 125 Ltrs Solar water is provided for each flat.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED lighting for common areas + Solar lighting + Solar hot water system + Solar PV panels	24 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 1,19,60,625 /-
	O & M cost:	Rs. 11,13,562 /-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-
2	Land	Site Sanitation	Rs. 26,500 /-
3	Health & safety	Site Safety	Rs.88,000 /-
4	Environment management	Environmental Monitoring	Rs. 1,20,000/-
5	Health & safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	2 No	Rs. 1,75,00,000 /-	Rs. 27,00,000 /-
2	Rain Water Harvesting	8 Nos	Rs. 6,50,000 /-	Rs. 70,000/-
3	Solid Waste Management	OWC	Rs. 25,75,000 /-	Rs. 5,82,533 /-
4	Green Belt Development	345	Rs. 11,00,000 /-	Rs. 2,00,000 /-
5	Energy	Solar System	Rs. 1,19,60,625 /-	Rs. 11,13,562 /-
6	Swimming pool	1	Rs. 32,96,000 /-	Rs. 2,15,000 /-
7	Environmental Monitoring	NA	NA	1,20,000

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	30 m wide Road

Parking details:	**Number and area of basement:**	No
	Number and area of podia:	No
	Total Parking area:	12378.40 sq. m
	Area per car:	30 sq. m
	Area per car:	30 sq. m
	Number of 2-Wheelers as approved by competent authority:	Scooters : 824 , Cycles : 776
	Number of 4-Wheelers as approved by competent authority:	294
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 & 12.00 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	Case no. 2735/2016 for violation of EIA notification 2006
	Other Relevant Informations	TOR Online application submitted on MOEF portal on 20.01.2018
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	02-06-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 47400 m2, FSI area of 40140.68 m2, Non FSI area of 23711.29 m2 and total BUA of 63851.97 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit revised drawing of internal storm water drain indicating RWH pits separately for terrace water and surface water.

2. PP to submit detailed drawing of internal sewage line upto final disposal point.

3. PP to submit details of OWC.

4. PP to incorporate separate chapter on Renewable energy in EIA report. PP to submit terrace plan for installing solar panels& calculations of energy saving; Energy efficient measures (LED lights, solar power, etc.) during construction as well as during operational phase of the project. Report on ECBCcompliance.

5. PP to provide details of Solar PV and Solar water heater in the specific format. PP to carryout shadow analysis for identifying the roof-top area for providing solar panels

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

91st SEAC-3 Meeting Day 01

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for Construction Project by M/s Classic Builders

Is a Violation Case: No

1.Name of Project	Regency Classic
2.Type of institution	Private
3.Name of Project Proponent	Mr. Anil Pawar
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Sr. No. 54/4
9.Taluka	Haveli
10.Village	Baner
Correspondence Name:	Mr. Anil Pawar
Room Number:	97/1
Floor:	-
Building Name:	Nagina Apartment
Road/Street Name:	Pune - Satara Road
Locality:	Padmavati Corner
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: CC/3726/15
	Approved Built-up Area: 22835.08
13.Note on the initiated work (If applicable)	19997.61 m2 (Building A (Wing A 1 + Wing A2) = P + 11, Building B (Wing B1)= P+ 11 ,(Wing B2) = P +6 Constructed)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	13400.00
16.Deductions	781.71
17.Net Plot area	8313.53
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Existing- 11330.58 m2+ Proposed- 1574.55 m2= 12905.13 m2
	b) Non FSI area (sq. m.): Existing- 8667.03 m2+ Proposed- 1262.92 m2= 9929.95 m2
	c) Total BUA area (sq. m.): 22835.08
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)	1992.70 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	14.87 % of Total Plot Area (13400.00 m2) & 25.81 % of Net Plot Area (8313.53 m2)
21.Estimated cost of the project	416400000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A(Wing A1+ Wing A2)	P + 11	36.00
2	B(Wing B1+ Wing B2)	P + 11	36.00

23.Number of tenants and shops	Total Tenements 172 nos.
24.Number of expected residents / users	Residential Users- 860 nos.
25.Tenant density per hectare	128.35
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12.00 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	137.54 m3/day (One time)
	Recycled water - Flushing (CMD):	38.70 m3/day
	Recycled water - Gardening (CMD):	13.44 m3/day
	Swimming pool make up (Cum):	3.00 m3/day
	Total Water Requirement (CMD) :	85.40 m3/day
	Fire fighting - Underground water tank(CMD):	274 m3
	Fire fighting - Overhead water tank(CMD):	80 m3
	Excess treated water	56.85 m3/day
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	124.10 m3/day (One time)
	Recycled water - Flushing (CMD):	38.70 m3/day
	Recycled water - Gardening (CMD):	0.00 m3/day
	Swimming pool make up (Cum):	3.00 m3/day
	Total Water Requirement (CMD) :	85.40 m3/day
	Fire fighting - Underground water tank(CMD):	274 m3
	Fire fighting - Overhead water tank(CMD):	80 m3
	Excess treated water	70.29 m3/day
Details of Swimming pool (If any)	Dimension of Swimming Pool: Main pool: 12 x 6 x1.2mt Kids pool: 7.7 x 2.5 x 0.6mt Balancing Tank Volume :10000ltrs Total Water Requirement in KLD: 110000 lits Make up water requirement in KLD: 2- 3 m3/day Details of Plant & Machinery used for treatment of Swimming pool water: NA Details of quality to be achieved for swimming pool water and parameters to be monitored: Capital cost: Rs. 55.00 Lakh O & M cost: Rs. 7.00 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:**	Summer Season: - 14 m BGL , Winter Season: - 11 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	4 Nos.
	Size of recharge pits :	1.5 m x 1.5 m x1.5 m
	Budgetary allocation (Capital cost) :	Rs. 2.50 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.60 Lakh/year
	Details of UGT tanks if any :	Domestic UG tank Capacity: 130.00 m3 Flushing UG tank Capacity: 55.00 m3 Fire UG tank Capacity: 274.00 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	308.50 m3 /hr
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	108.99 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. & Capacity - 110.00 m3/day (Existing)
	Location & area of the STP:	Area = 68.16 m2
	Budgetary allocation (Capital cost):	Rs.34.85 Lakh
	Budgetary allocation (O & M cost):	Rs.2.82 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:**	172.00 kg/day
	Wet waste:	258.00 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	9.80 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized vender
	Wet waste:	Organic waste convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	47.1 m2
	Area for machinery:	Included in other Area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	For OWC-150 kg/day - 1no. - 6.75 Lakh (Existing) & For OWC -150 kg/day - 2 no. - 6.75 Lakh (Proposed)
	O & M cost:	For OWC 150 kg/day - 1 no. - 1.49 Lakh/year (Existing) & For OWC -150 kg/day - 2 no. - 1.49 Lakh/Year (Proposed)

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set - 125 KVA - 1 no.	HSD-38.3 Liters / Hr	S - 1	6.5 m	As per Norms	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	38.3 Liters /Hr.	NA	38.3 Liters /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 :**	2769.19 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	207 nos. already planted
	List of proposed native trees :	-
	Timeline for completion of plantation :	Already Completed

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Tabebuia rosea	Pink Trumpet Tree	34	Preparations of the cortex of the tree are consumed to eliminate intestinal parasites, malaria and uterine cancer
2	Terminalia mantaly	Terminalia	42	Evergreen tree, shade giving.
3	Cassia fistula	Golden shower	05	Drought tolerant, ornamental & medicinal plant
4	Spathodea campanulata	Tuliptree, fountain tree, pichkari or nandi flame	27	The flower bud is ampule-shaped and contains water. These buds are often used by children who play with its ability to squirt the water. The sap sometimes stains yellow on fingers and clothes. The open flowers are cup-shaped and hold rain and dew, making them attractive to many species of birds.
5	Lagerstroemia indica	Crape myrtle, crepe myrtle, crepeflower	04	Flowering shrub/small tree, Low maintenance.
6	Coconut	Cocos nucifera	30	Nitrogen fixer, ornamental plant.
7	Cassia javanica	Ava cassia, pink shower, apple blossom tree	03	Drought tolerant, ornamental & medicinal plant.
8	Syzygium cumini	Jambhul	05	Fruit tree & bird attracting
9	Annona reticulata	Custard apple	03	Annona reticulata Linn. (Bullock's heart) is one of the traditionally important plant used for the treatment of various ailments. It belongs to family Annonaceae. The synonyms (Table 1) of plant are Ramphal, Bullock's heart and Custard apple.
10	Punica granatum	Pomegranate	05	Fruit tree & bird attracting.
11	Tamarindus indica	Tamarind	02	Fruit tree & bird attracting

12	Phyllanthus emblica	Amla	02	Phyllanthus Emblica. Amla (also known as Indian Gooseberry) is an important medicinal plant in ayurveda. It is known for its antioxidant, immunomodulatory, rejuvenating and anti-aging properties. These properties are found in its fruit pulp.
13	Ficus carica	Anjeer	04	Fruit tree & bird attracting
14	Mangifera indica	Mango tree	03	Evergreen & bird attracting tree
15	Citrus	Lemon	02	Fruit tree & medicinal plant
16	Psidium guajava	Guava	02	Fruit tree & bird attracting
17	Manilkara Zapota	Chikoo	04	Tropical fruit tree & bird attracting tree
18	Wodyetia bifurcata	Foxtail palm	22	Nitrogen fixer, ornamental plant
19	Peltophorum	Copperpod, yellow-flamboyant, yellow flametree, yellow poinciana or yellow-flame	02	Ornamental & flowering plant
20	Plumeria alba	White frangipani or nosegay	03	Ornamental & flowering plant
21	Plumeria singapore pink	White frangipani or nosegay	03	Ornamental & flowering plant
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Tecoma Gaudichaudi	-	5.95
2	White & Pink	-	11.74
3	Alternathra	-	4.51
4	Bougainvillea Pink	-	7.29
5	Mahatma Cordyline	-	12.32
6	Oleander Single pink	-	9.59
7	Spidetr Lily	-	14.55
8	Ixora Red	-	29.99
9	Pendanus	-	15.38
10	Ficus Panda	-	7.48
11	Ixora Miniature	-	25.75
12	Black Bamboo	-	21.98
13	Golden Bottle Brush	-	40.13
14	Tagar Variegated	-	23.55
15	Spider lily golden	-	13.42
16	Hibiscus Orange	-	40.13
17	Plueria Pudica	-	14.65
18	Giant Spider Lily leaves	-	4.35
19	Acalypha Holland Red	-	9.99
20	Ixora Yellow	-	14.36

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	82.5 KVA - 1no.
	During Operation phase (Connected load):	810 KW
	During Operation phase (Demand load):	729 KVA
	Transformer:	630 KVA - 2 nos.
	DG set as Power back-up during operation phase:	125 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:

• Solar water heating systems will be done for bathrooms.
• Solar lights will be provided for common amenities like Street lighting & Garden lighting.
• CFL & LED based lighting will be done in the common areas, landscape areas, signage's, entry gates and boundary compound walls etc.
• Auto Timer switches will be provided for Street lights, Garden lights, Parking & staircase Lights & other common area Lights, for saving electrical energy.
• Water level controllers with timers will be used for Water pumps.
• To create awareness to end consumer or flat owner, for using energy efficient light fittings like CFL, T5 Lamps & LED lights.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Lobby & staircase	7.36 KW
2	Parking, Meter room, Pump room etc.	0.64 KW
3	External Lighting Street Light	0.69 KW
4	Above Podium landscape Lighting	0.94 KW
5	Lifts with V3F drive and Regenrative type	64.00 KW
6	Club House and other Mise AC Load with VRF	13.65 KW
7	Use of Capacitors for Pumping machinery	66.32 KW
8	STP	15.00 KW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	We have planted 207nos. of trees on site	-
Water	STP is nstalled & excess treated water is used for flushing & gardening	-

Noise	Acoustically enclosed DG set is installed.	Noise monitoring will be done in once a fortnight.
Solid Waste	Wet waste is treated in Existing OWC & Dry waste is handed over to Authorized Vendor.	For Proposed development,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. 56.06 Lakh
	O & M cost:	Rs. 1.90 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (110.00 m3/day)	Sewage Treatment Plant	Rs. 34.85 Lakh	Rs. 2.82 Lakh/Year
2	RWH	Rainwater Harvesting	Rs. 2.50 Lakh	Rs. 0.60 Lakh/Year
3	OWC (150 kg/day) - 1 no.(Existing)	Organic Waste Converter	Rs. 6.75 Lakh	Rs.1.49 Lakh/Year
4	OWC (150 kg/day) - 2 no.(Proposed)	Organic Waste Converter	Rs. 6.75 Lakh	Rs.1.49 Lakh/Year
5	Solar System	Solar System	Rs. 56.06 Lakh	Rs. 1.90 Lakh/Year
6	Swimming Pool	Swimming Pool	Rs. 55.00 Lakh	Rs. 7.00 Lakh/Year
7	Landscaping	Landscaping	Rs. 13.94 Lakh	Rs. 0.40 Lakh/Year
8	Safety Equipment	Safety Equipment	Rs. 10.00 Lakh	Rs. 2.00 Lakh/Year
9	Post EC Monitoring	Post EC Monitoring	-	Rs. 2.50 Lakh/Year
10	Dry Waste Management	Dry Waste Management	-	Rs. 0.10 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:	1 no.& Area of Podium - 1507.66 m2
	Total Parking area:	7596.20 m2
	Area per car:	39.56 m2
	Area per car:	39.56 m2
	Number of 2-Wheelers as approved by competent authority:	403
	Number of 4-Wheelers as approved by competent authority:	192
	Public Transport:	NA
	Width of all Internal roads (m):	6 m & 9 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	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

PP submitted their application for prior Environmental clearance for total plot area of 13400.00 m2, FSI area of 12905.13 m2, Non FSI area of 9929.95 m2 and total BUA of 22835.08 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit revised parking layout plan by removing dependent parking. PP to submit parking statement as per DCR and actually proposed.

2. PP to submit copy of approved plan indicating details of buildings approved and mandatory RG.

3. PP to submit following NOCs: (i) Drainage (ii) CFO (iii) water supply (iv)Garden.

4. PP to submit RG area calculations indicating area of swimming pool.

5. PP to submit survival report of existing trees and proposed plantation plan including local native species.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

91st SEAC-3 Meeting Day 01

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for Proposed Construction of Maharashtra National Law University, at KH No. 140/2 at Waranga, Wardha Road, Nagpur

Is a Violation Case: No

1.Name of Project	Proposed Construction of Maharashtra National Law University, at KH No. 140/2 at Waranga, Wardha Road, Nagpur
2.Type of institution	Government
3.Name of Project Proponent	The Registrar, Maharashtra National Law University, Nagpur
4.Name of Consultant	ABC Techno Labs India Pvt. Ltd. ; Head office : ABC Tower no 400, 13th Street, SIDCO Industrial Estate- North Phase, Ambattur Chennai – 600 098; Regional Office : A-355, Balaji Bhavan, Plot 42 A, Sect 11, CBD Belapur, Navi Mumbai 400614 ;Tel : 022-2758 0044/55; Email ID: mumbai@abctechnolab.com
5.Type of project	Educational Institute
6.New project/expansion in existing project/modernization/diversification in existing project	NEW
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	KH No. 140/2 at Waranga, Wardha Road, Nagpur
9.Taluka	Nagpur (Rural)
10.Village	Mauza-Waranga
Correspondence Name:	The Registrar, Maharashtra National Law University, Nagpur
Room Number:	NA
Floor:	NA
Building Name:	Moraj Design & Decorator (DnD) Building,
Road/Street Name:	Near HP OIL Depot, Wardha Road
Locality:	Khapri, Tehsil -Nagpur Rural
City:	Nagpur
11.Whether in Corporation / Municipal / other area	Nagpur Metropolitan Region Development Authority
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: --
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No work initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	0
15.Total Plot Area (sq. m.)	240097.517
16.Deductions	5559.68
17.Net Plot area	234537.837
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 154266
	b) Non FSI area (sq. m.): 59886
	c) Total BUA area (sq. m.): 214152
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 02-08-2019
19.Total ground coverage (m2)	70916
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29.8
21.Estimated cost of the project	8790000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Security & Waiting & BLK A1	G	3.6
2	Bank & BLK A2	G	3.6
3	Health & wellness centre & BLK A3	G+2	11.25
4	Drivers/Workers Rest area BLK B	G+1	6.6
5	VC Residence & Office BLK C	G+1	6.9
6	Registrar RES & Office BLK D	G+1	6.9
7	Chancellors RES & Office & BLK E	G+1	6.9
8	Convection centre & Auditorium BLK F	G+3	27.25
9	Administartion Blocks	LG+G+2	16.35
10	Library BLK H	G+5	28.55
11	Acadamic Blocks BLK J	G+2	14.3
12	Sports Centre BLK K 1	G	14.05
13	Convenience Shops BLK K 2	G	3.5
14	MLCP BLK L	B+G+4	16.2
15	Boys hostel block BLK M	G+6	22.55
16	PG , International & 3rd Gender Hostel BLK N	G+6	22.55
17	Girls hostel block BLK P	G+6	22.55
18	Dining & Amenity Block BLK Q	G+2	14
19	Faculty club & Guest house BlLK R	G+4	15.9
20	3 BHK Row Houses BLK S1/S2	G+1	6.6
21	3 BHK Staff Residence BLK T	S+6	23.4
22	2 BHK Staff Residence BLK U	S+6	24.8
23	1 BHK Staff Residence BLK V	S+6	24.8
24	Workers Dorm & Diary	G	7.3

23.Number of tenants and shops	3500 tenants & 12 shops
24.Number of expected residents / users	3500
25.Tenant density per hectare	146
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 m

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	No
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Wakeshwar dam, Pond (1 & 2) & Borewell
	Fresh water (CMD):	368
	Recycled water - Flushing (CMD):	72
	Recycled water - Gardening (CMD):	218
	Swimming pool make up (Cum):	2010 KL
	Total Water Requirement (CMD) :	658 KLD (excluding swimming pool)
	Fire fighting - Underground water tank(CMD):	500 KL
	Fire fighting - Overhead water tank(CMD):	410 KL
	Excess treated water	0

Wet season:	**Source of water**	Wakeshwar dam, Pond (1 &2) and Borewell
	Fresh water (CMD):	368
	Recycled water - Flushing (CMD):	72
	Recycled water - Gardening (CMD):	44
	Swimming pool make up (Cum):	2010 KL
	Total Water Requirement (CMD) :	484 KLD (excluding swimming pool)
	Fire fighting - Underground water tank(CMD):	500 KL
	Fire fighting - Overhead water tank(CMD):	410 KL
	Excess treated water	32 KL
Details of Swimming pool (If any)	2010 KL water will be available in proposed swimming pool. The Source of this water will be output of WTP. The requirement is of one time after 3-5 years water can be changed.	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	0	440	440	0	42	42	0	378	378
Cooling tower & thermopack	0	248	248	0	0	0	0	0	0
Gardening	0	218	218	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	20 m depth
	Size and no of RWH tank(s) and Quantity:	7 nos. + (6 mt X 7 mt.) = 737 KL. Pond I is 35,000 kl & for pond II 10,000 KL
	Location of the RWH tank(s):	3 tanks are proposed near to Block J , H , 2 tanks near to block L & block M and 1 will be near to block P , 1 will be near to block Q
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	9 Crores
	Budgetary allocation (O & M cost) :	5 Lakhs
	Details of UGT tanks if any :	Total 4 UGT Tanks are proposed . Raw water (700 KL) , Treated water(350 KL), Pond Water (350 KL) , Treated sewage tank (500 KL) & Dam water storage tank (500 Kl). , In total 2400 KL water will be stored in these UGT tanks.
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	121479 KL
	Size of SWD:	600 M by 1M plus vegetated swales
Sewage and Waste water	**Sewage generation in KLD:**	378
	STP technology:	DEWATS with VORTEX System
	Capacity of STP (CMD):	total 5= 1X 120 KLD, 1X57 KLD, 1X30 kLD, 1X 50KLD, 1 X 130 KLD
	Location & area of the STP:	120 KLD= Girls Hostel single occupancy 02, 57 KLD = near to dining block, 30 KLD= Near acadamic building and 130 KLD= Faculty
	Budgetary allocation (Capital cost):	2.85 crores
	Budgetary allocation (O & M cost):	15 Lakks
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	150 kg/day
	Disposal of the construction waste debris:	Disposal of construction waste will be done as per construction & demolition waste disposal rule 2016
Waste generation in the operation Phase:	**Dry waste:**	775 Kg/day
	Wet waste:	525 Kg/day
	Hazardous waste:	300 kl /year
	Biomedical waste (If applicable):	20 kg/day
	STP Sludge (Dry sludge):	94 kg /day
	Others if any:	E-Waste -negligible

Mode of Disposal of waste:	**Dry waste:**	It will be handed over to authorised vendor
	Wet waste:	Organic waste Converter will be used to convert wet waste into Compost
	Hazardous waste:	It will be handed over to MPCB Authorized Recycler
	Biomedical waste (If applicable):	It will be handed over to PCB BMW authorized vendor
	STP Sludge (Dry sludge):	It will be utilised as a manure
	Others if any:	NA
Area requirement:	**Location(s):**	Near to dairy
	Area for the storage of waste & other material:	--
	Area for machinery:	10 X 7
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 Lakhs
	O & M cost:	5 Lakks

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	6.0-8.5	5.5-9.0	6.5-9.0
2	TSS	mg/lit	250-400	<10	<100
3	TSS	mg/lit	250-400	<10	<100
4	COD	mg/lit	350-450	<60	<250
5	BOD	mg/lit	200-250	<10	<30

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used oil	5.1	KL/Years	0	300	300	It will be handed over to PCB authorized vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Stack	HSD (20 KLX2 nos)	1	30 mt	0.35 mt	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel (HSD)	0	40 KL (considering in power failure of 48 hrs)	40 KL (considering in power failure of 48 hrs)
41.Source of Fuel		Near by oil depot		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	93936 sq. m.
	No of trees to be cut :	0
	Number of trees to be planted :	8384
	List of proposed native trees :	All the selected plants which are proposed for plantation are native species.
	Timeline for completion of plantation :	12 months

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	Aegle marmelos	Bel/ bengal quince/ Maredu	225	tolerant of waterlogging and has an unusually wide temperature tolerance (from -7 °C to 48 °C)
2	Alstonia scholaris	Saptparni/ Devils tree	48	It is a flowering plant and having medicinal properties
3	Anthocephalus cadamba	Kadam / Kadamb	258	Birds and other animals help in dispersal of the edible fruit. At the age of 4 years kadam may start flowering.
4	Artocarpus heterophyllus	Jackfruit	130	Evergreen ,Fruit bearing & slow growing tree
5	Azadirachta indica	Neem	312	It is quick growing, seed bearing & Evergreen tree
6	Ailanthus excelsa	Marukh	251	It is deciduous , quick growing and seed bearing tree
7	Albizia lebbeck	Siris tree/ Siris	247	It is quick growing, seed bearing and deciduous tree
8	Butea monosperma	Palas/ Flame of the forest	297	Deciduous ,slow growing and seed bearing tree
9	Bauhinia purpurea	Kanchan / Apta	304	This tree also known as butterfly tree, also quick growing & deciduous
10	Bombax ceiba	Shalmali/ Semal / Silk Cotton Tree	68	This Asian tropical tree has a straight tall trunk , flowering plant, attractive to local birds
11	Boswellia serrata	Dhupali/ shallaki/ kurunda/ salai	239	It is native to India, and its extract has been used as a traditional medicine for centuries.
12	Cassia fistula	Bahava/ Indian laburnum	103	It is quick growing, seed bearing, deciduous tree
13	Cassia siamea	Kashid/ Kassod / Siamese Senna	123	It is evergreen, fast growing and seed bearing tree

14	Cauroupita guianensis	Shivalingam /Cannon ball / Nagalinga	26	flowering tree and having medicinal properties
15	Citrus grandis	Chakotara/ bampara/ grape fruit	36	Fruit bearing plant, leaves having medicinal properties
16	Citrus medica	Mahalunga/ galgal/ Citron	46	traggly, evergreen shrub or small tree growing up to 4 metres tall
17	Cochlospermum religiosum	Ganeri / Kondagogu / Buttercup tree	233	Small, flowering plant
18	Dalbergia sisoo	Sissu/ Shisham	220	This tree is best known economic timber species, fast growing, hardy deciduous rosewood tree
19	Erythrina indica	Pangara / Indian coral tree	258	Erythrina indica is a medium-sized, spiny, deciduous tree normally growing to 6-9 m
20	Erythrina stricta	Pangara/ Coral tree	37	This tree is evergreen , flowering & harvested from the wild for local use as a medicine
21	Ficus carica	Poona fig/ Dinkar/ Anjeer	23	Fruit baring, attractive to birds, iiis also an ornamental plant
22	Ficus religiosa	Peepal	55	It is having a very long lifespan, large tree upto 30 mt, semi evergreen plant
23	Ficus glomerata	Umbar	69	This is quick growing, seed bearing, deciduous plant
24	Ficus retusa	Wad / chilkhan	46	having large life span , The seeds are small, and because most banyans grow in woodlands, a seedling that germinates on the ground is unlikely to survive.
25	Ficus virens	Bassari/ White Fig/ Pilkhan	59	It is seed bearing, evergreen , slow growing (in early stage)
26	Garuga pinnata	kakad / Grey downy balsam/ kharpat	38	Garuga pinnata is a deciduous tree species
27	Haldina cordifolia	Haldu/ Karam/ Kadami	213	Haldina cordifolia is a deciduous tree with a large crown; generaly growing from 18 - 30 metres tall, specimens up to 45 metres have been recorded.
28	Holoptelea integrifolia	Papada/ Wavli/ Chilbil	82	Holoptelea integrifolia is a deciduous tree growing up to 22 metres tall.The tree is harvested from the wild for local use as a medicine, food, and as a source of oil and wood.
29	Holarrhena pubescens	Indrajav/ kutaja/ pandhra kuda	69	Flowering, is a deciduous shrub or tree with fragrant white flowers and abundant white latex in all its parts. It grows up to 10 metres tall
30	Lagerstroemia indica	Taman/ Pride of India	146	Its flowers bearing plant
31	Lagerstroemia microcarpa	Nana/ Ben teak	221	Lagerstroemia microcarpa is a large deciduous tree.A valuable and important timber tree, much in request, and giving one of the best of the woods of Western India[

32	Lagerstroemia parviflora	Lende/ Bondga/ Dhaura/ Small crape myrtle	66	It is a large, deciduous tree that can grow 30 metres or more tall. The tree is valued for its timber, which is one of the best found in the mixed forests of India,
33	Lannea coromandelica	Shemat/ Moi/ Indian ash tree	24	It is a deciduous tree usually growing 5 - 10 metres tall but with some specimens up to 20 metres tall with a bole 45cm in diameter
34	Limonia acidissima	Kaith / Kovit / Wood Apple	37	It is multipurpose tree, both gathered from the wild and also cultivated for its edible fruit, plus its wide range of medicinal and other uses
35	Mangifera indica	Keshar, Alphonso, Sindhu, Ratna	75	It is a large, evergreen tree, attractive , fruit bearing plant
36	Madhuca longifolia	Kat-illip/ Mahua/ Indian Butter Tree	244	It is a fast-growing tree that grows to approximately 20 meters in height, possesses evergreen or semi-evergreen foliage
37	Mimusops elengi	Bakuli / Maulsari	264	It is an evergreen tree with a dense, rounded, spreading crown; it usually grows from 15 - 30 metres tall,
38	Michelia champaka	Champaca / Sonchafa	276	It is large evergreen , commonly cultivated as an ornamental and wayside tree throughout the tropics, being valued especially for its fragrant flowers
39	Millingtonia hortensis	Indian cork tree	76	It is used as traditional medicinal plant
40	Moringa oleifera	Shevga / Drumstick Tree	242	It is a deciduous tree; it usually grows 7.5 - 18 metres tall but occasionally can reach up to 10 metres.
41	Nyctanthus arbo-tristis	Parijat	27	It is a large shrub or small tree with spreading branches, growing up to 10 metres tall
42	Oroxylum indicum	Tayitu/ tetu/ Indian Trumpet Flower	34	It is a fast-growing, lanky and sparsely limbed evergreen or partly deciduous tree with an open, irregular crown; it can grow 10 - 20 metres tall
43	Punica granatum	Pomegranate	71	It is a deep-rooted but slow-growing, spiny, deciduous shrub or small tree that has an open canopy and a crown that branches from low down. It can reach a height of around 5 metres
44	Phyllanthus emblica	Amla/ Aonla- Banarasi, Krishna	227	It is a deciduous shrub or small tree; it usually grows 7.5 - 18 metres tall but occasionally can reach up to 30 metres.
45	Pongamia pinnata	Karanj/ Indian beech tree	287	It is a fast-growing, medium-sized, evergreen or briefly deciduous, glabrous shrub or tree with a broad crown of spreading or drooping branches

46	Putranjiva roxburghii	Shatputri	61	It is an evergreen tree growing up to 12 metres tall. The tree is harvested from the wild for local use as a medicine and source of beads, oil and wood.
47	Pithecellobium dulce	Vilayatichinch / Jangal jalebi	68	It is a fast-growing tree with a generally broad and spreading or rounded crown. It usually grows from 10 - 15 metres tall, but ranges between 5 and 18 metres
48	Sesbania grandiflora	Shevari/ Hatga/ Agati	58	It is quick growing, evergreen tree can grow upto 10 m
49	Sterculia foetida	Goldaru/ Jangali badam/ Indian Almond	65	It is quick growing, deciduous tree can grow upto 15 m
50	Schleichera oleosa	Kusumb/ Kusum	85	It is a rather slow-growing, briefly deciduous tree that can reach a height of 40 metres
51	Syzygium cumini	Jamun	302	It is quick growing, evergreen tree can grow upto 20 m
52	Tamarindus indicus	Imli / Tamarind	46	is quick growing, evergreen tree can grow upto 20 m
53	Terminalia arjuna	Arjun	294	t is quick growing, deciduous tree can grow upto 15 m
54	Terminalia bellarica	Baheda	238	It is quick growing, deciduous tree can grow upto 15 m
55	Terminalia catappa	Jangli badam/ Wild almond	99	It is quick growing, deciduous and can grow upto 10 mt
56	Thespesia populnea	Paras pipal/ Indian Tulip tree	171	It is quick growing, evergreen , can grow upto 10 mt height
57	Wrightia tinctoria	Kala kuda/ Kapar/ Sweet Indrajao	76	It is a deciduous tree; it can grow from 6 - 18 metres tall.ornamental , medicinal
58	Ziziphus mauritiana / jujuba	Ber- Umran, Kadaka, Sannur, Mehrun	89	It is quick growing, evergreen tree of 10 mt height
59	Acacia nilotica	Babool	90	Small tree, 2.5–14 m tall,Grows on a wide variety of soils, seemingly thriving on alluvial soils, black cotton soils, heavy clay soils, as well as even poorer soils
60	Murraya koenigii	Kari patta / Kudianim / Curry Leaf	20	A deciduous aromatic shrub with strong smell growing up to 3-5 m tall with a trunk up to 40 cm in diameter. The aromatic leaves are pinnate with 15-25 leaflets, each leaflet 2-4cm long and 1-2 cm broad. The flowers are small, white and fragrant which produce small shiny-black berries containing a single, large viable seed
61	Phoenix sylvestris	kharik/ kharjur/ Indian wild date	30	s a very tall, fast-growing, unbranched, single-stemmed palm with recurving, plumose, glaucous fronds, growing 4 - 15 metres tall[
62	Acacia ferruginea	Pandhara Khair/ kaigar/ Rusty Acacia	40	It is a seed bearing, quick growing tree having height 3-4 m

63	Ficus bengalensis	Wad / banyan	20	is an evergreen tree with a wide, spreading crown; it can grow 20 - 30 metres or more tall. The tree is harvested from the wild for its edible fruit and medicinal uses
64	Citrus aurantiifolia	Common lime/ ambatanimbu/ nimbu	40	Lime is a small, densely and irregularly branched evergreen tree growing up to 5 metres tall
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)	630 kvA
	DG set as Power back-up during construction phase	630 kvA X 1 Nos
	During Operation phase (Connected load):	7966 kW
	During Operation phase (Demand load):	3708 kW
	Transformer:	6 X 630 KvA, 2 x 500 kvA, 2 X 1600 kvA
	DG set as Power back-up during operation phase:	2 X 1010 kvA + 2 X 2000 kvA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving will be achieved by using LED efficient lights, passive cooling systems, energy efficient air conditioning, by adopting passive architectural measures (buildings are completely insulated, mutually shaded and 100 % day light buildings) low energy consuming sewage treatment plants . To off set 100 % of energy requirement 5 mW Solar PV plant will be installed (On Grid system)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Lighting (in comparison with conventional measures)	44 %
2	Equipment (in comparison with conventional measures)	40 %
3	HVAC (in comparison with conventional measures)	55 %

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:**	4500 lacs
	O & M cost:	50 lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust Control	Dust Suppression	20
2	Site sanitation & safety	Sanitation	15
3	Pollution Control	Environmental monitoring	4
4	Occupational health	Health Check up	2
5	Pollution Control	Disinfection	1

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Waste Water Management	STP	285	15
2	Waste Management	OWC	15	5
3	Green Belt	Tree Plantation	50	12
4	Energy Conservation measure	Solar PV system + Energy efficient equipment	4500	50
5	Water Conservation	Rain Water Harvesting	900	5
6	Pollution Control	Air, Water , Waste water & soil Monitoring	--	3
7	Pollution Control	Air, Water , Waste water & soil Monitoring	--	3
8	Drainage System	Laying of Storm & Sewer line up to final disposal point	15	4

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Diesel	Proposed	DG & HSD Yard (near BLK B)	20 Kl	20 Kl	12.75 kl	Near by oil depot	By road

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:**	1 no. and 3816 sq. m.
	Number and area of podia:	None
	Total Parking area:	35694 Sq. M.
	Area per car:	26.19 sq. m
	Area per car:	26.19 sq. m
	Number of 2-Wheelers as approved by competent authority:	2503
	Number of 4-Wheelers as approved by competent authority:	555
	Public Transport:	Bus stop provided within site adjacent to main road
	Width of all Internal roads (m):	6.5 m, 9.0 m & 18.0 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None in 10 km radius of Project Site
	Category as per schedule of EIA Notification sheet	B1 (8 (b)
	Court cases pending if any	NO
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 240097.517 m2, FSI area of 154266 m2, Non FSI area of 59886 m2 and total BUA of 214152 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. (K) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF&CC circular dt. 01.05.2018, along with details of fund utilization & agreement or consent of executor. PP to incorporate asset creation activities like provision of ambulance, electric cremation facility, solar energy for schools etc.

2. (K) PP to submit disaster management plan incorporating lightering arrestor plan.

3. (V) PP to carry out Traffic Impact Study in detail including,

1. Traffic Management Plan for the development – Internal circulation with road width should be revised with showing clear road width of 6 meters and turning radius of 9 meters; PP to submit cross section of roads at four places showing clear road width 6 meter , 1.5 meter distance left from building line, spaces left for plantation, footpath, service lines etc

2. Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project showing the time period taken & revise table to be submitted.

3. Topographic details of roads and intersection of the surrounding roads where counts are taken, actual geometry on ground to be shown with dimensions..

4. Traffic generation values of similar development to be given by actual count by actual count as support data for assumption made to the particular project.

5. PP to revise parking table mentioning parking as per DCR & parking provided actually.

6. PP to submit drawing& sketches showing junction larger scale with geometry & showing traffic counts in detail and volume diagram.

4. (V) PP to submit Fire Tender Movement Plan showing clear road width of 6 meters and turning radius of 9 m ; PP to submit cross section of roads at four places including UGT , OWC and DG set location showing clear road width 6 m, 1.5 m distance left from building line & spaces left for plantation, parking, service lines, foot paths, etc.

5. (V) PP to submit parking layout plan for all the floors showing slope and width of the ramps.

6. (G) PP to submit cross section of all buildings.

7. (V) PP to submit parking area statement as per DCR.

8. (V) PP to submit cross section of basement showing width and slope of ramp.

9. (V) PP to submit details of basement parking.

10. (V) PP to prepare consolidated report on traffic and vehicular pollution as a single chapter in EIA.

11. (G) PP to submit site specific executable and auditable EMP along with implementation plan and environmental management cell provision for construction and operation phase in EIA.

12. (G) PP to indicate HT wires on the plot.

13. (G) PP to submit detail debris management plan; PP should not remove the debris haphazardly & dump it on road side.

14. (G) PP to submit socio-economic infrastructure details including public transport arrangements on the site; PP to mention details of socio-economic in EIA.PP to correct socio-economic infrastructure details Consolidate Statement as per earlier EC.

15. (G) PP to provide required amenities within layout as per the planning standards if the existing amenities within the vicinity of plot are inadequate to cater the need of the locality.

16. (G) PP to submit phase wise development plan considering wind rose diagram.

17. (G) PP to submit details hydro geological survey report with graphs & data.

18. (G) PP to submit all copies of permissions granted by State Government in tabular and chronological form.

19. (G) PP to submit specific NOC for supply of water for entire project by Irrigation Department.

20. (J) PP to submit internal storm water drain and sewer line arrangements up to final disposal point.

21. (B) PP to include carbon footprint estimations for operation & construction phase in EIA report.

22. (B) PP to carry out fugitive dust monitoring by using local meteorological data.

23. (B) PP to submit waste management plan details with its transport, collection, storage and disposal for all types of wastes like hazardous waste, non-hazardous waste, solid waste, E– waste, and debris/excess earth etc.; PP to submit OWC details.

24. (B) PP to submit details of design of all STP's along with BOD load, oxygen requirement calculations and sizing of the tanks with respect to the design criteria. PP to submit detailed calculation for the disinfection of the treated STP water; PP to submit cross sectional drawing of STP's showing dimensions and ground level; PP to provide ozonation for tertiary treatment. PP to mark the area required for all STP's on master layout with dimensions.

25. (B) PP to explore possibility to install air monitoring station on site during construction as well as operation phase for ambient air quality monitoring.

26. (D) PP to submit undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.

27. (D) PP to include separate chapter on Renewable energy in EIA report. PP to submit terrace plan for installing solar panels& calculations of energy saving; PP to submit energy modelling with write-up support to this.

28. (T) PP to obtain and submit following NOC's: a) CFO NOC, b)Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.

29. (T) PP to submit master layout superimposing all environmental parameters.

30. (C) PP to submit survival report of existing trees. PP to submit plantation plan incorporating local native fruit bearing trees.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for Zensar Technologies Ltd.

Is a Violation Case: Yes

1.Name of Project	Kharadi Knowledge Park, MIDC Kharadi, Pune
2.Type of institution	Private
3.Name of Project Proponent	Zensar Technologies Ltd.
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial Estate
6.New project/expansion in existing project/modernization/diversification in existing project	Proposal is for Environment Clearance for existing Knowledge Park
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Proposal is for Environment Clearance for existing Knowledge Park
8.Location of the project	Plot no 4-MIDC Kharadi, Kharadi, Pune, Maharashtra.
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	Mr. Shashank Bangale
Room Number:	-
Floor:	-
Building Name:	Zensar Knowledge Park,
Road/Street Name:	Plot No. 4, MIDC, Off Nagar Road
Locality:	Kharadi
City:	Pune – 411014
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	MIDC Plan Approval Number: E6/IT/Plans/2365/01 2007, dtd. 19/12/07
	IOD/IOA/Concession/Plan Approval Number: MIDC Plan Approval Number: E6/IT/Plans/2365/01 2007, dtd. 19/12/07
	Approved Built-up Area: 52450.43
13.Note on the initiated work (If applicable)	Construction of the project is completed.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC Allotment letter dated 7th April 2003
15.Total Plot Area (sq. m.)	44,043.00 sq.m
16.Deductions	-
17.Net Plot area	44,043.00 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 36,629.82
	b) Non FSI area (sq. m.): 15,860.61
	c) Total BUA area (sq. m.): 52450.43
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 6,629.82
	Approved Non FSI area (sq. m.): 15,860.61
	Date of Approval: 19-12-2007
19.Total ground coverage (m2)	9474.52
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21.5%
21.Estimated cost of the project	1100000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A' Block – Alps	LGF+5	23.95
2	A1' Block - Himalaya	LGF+5	21.85
3	Transformer	GR	4.5
4	Security Cabin	GR	3.82
5	Cafeteria	B+LGF+ GF+ 2	12.0
6	Corporate Block	STILT+2	9.88
7	Fuji & Rockies	B+LGF+7	38.25 & 26.175

23.Number of tenants and shops	NA
24.Number of expected residents / users	3625
25.Tenant density per hectare	823
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	50 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	A Block – Alps FSI: 7277.34 NON FSI:1065.6 Total BUA:8342.9 OC obtained; A1 Block – Himalaya FSI: 8066.8 NON FSI:1021.7 Total BUA: 9088.6 OC obtained; Transformer room FSI: 223.3 NON FSI: 0 Total BUA: 223.3 OC obtained; Security Cabin FSI: 178.2 NON FSI:0 Total BUA: 178.2 OC obtained; Corporate Block FSI: 3882.2 NON FSI: 2083.4 Total BUA: 5965.6 Construction completed; Cafeteria FSI: 2628.6 NON FSI: 2004.4 Total BUA: 4632.9 Construction completed; Fuji & Rockies Block FSI: 14373.4 NON FSI: 96
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	55
	Recycled water - Flushing (CMD):	110
	Recycled water - Gardening (CMD):	22
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	186
	Fire fighting - Underground water tank(CMD):	434
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	6
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	55
	Recycled water - Flushing (CMD):	110
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	164
	Fire fighting - Underground water tank(CMD):	434
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	6
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3m to 4m
	Size and no of RWH tank(s) and Quantity:	10 nos.
	Location of the RWH tank(s):	Refer enclosed layout
	Quantity of recharge pits:	10 nos
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	15.0 Lacs
	Budgetary allocation (O & M cost) :	3.0 Lacs
	Details of UGT tanks if any :	LGF of Himalaya and Cafeteria buildings.
35.Storm water drainage	**Natural water drainage pattern:**	Maintained
	Quantity of storm water:	3200 cum per annum
	Size of SWD:	150 MM
Sewage and Waste water	**Sewage generation in KLD:**	154
	STP technology:	MBBR
	Capacity of STP (CMD):	150 cmd
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	14.0 lakhs
	Budgetary allocation (O & M cost):	3.0 lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Not applicable
	Disposal of the construction waste debris:	Not applicable
Waste generation in the operation Phase:	**Dry waste:**	508 kg/day
	Wet waste:	218 kg/day
	Hazardous waste:	15 kl diesel
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	0.2 Kg/day
	Others if any:	Refer enclosed E waste details

Mode of Disposal of waste:	**Dry waste:**	Dry garbage is segregated into recyclable and non-recyclable & is handed over to the authorized recycler
	Wet waste:	The biodegradable waste is composted using Biogas plant.
	Hazardous waste:	Disposed to MPCB authorized party
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dried and composted and used as manure for gardening.
	Others if any:	Sold to MPCB authorized party
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	Appx 200 sq mts
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	7.0 lacs
	O & M cost:	1.5 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 :**	4531.39 sq.m.
	No of trees to be cut :	123 nos
	Number of trees to be planted :	450 Nos trees planted
	List of proposed native trees :	Refer Enclosed Tree details
	Timeline for completion of plantation :	Plantation done

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	Refer Enclosed Tree details	Refer Enclosed Tree details	Refer Enclosed Tree details	Refer Enclosed Tree details
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	Refer Enclosed Tree details	Refer Enclosed Tree details	Refer Enclosed Tree details

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL.
	During Construction Phase: (Demand Load)	Not applicable
	DG set as Power back-up during construction phase	Not applicable
	During Operation phase (Connected load):	-
	During Operation phase (Demand load):	6414 KW
	Transformer:	-
	DG set as Power back-up during operation phase:	4 Nos of 4100 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy saving measures:
• Replacement of CFL with LED lights
• Power consumption monitoring based on ambient room temperature
• Selected UPS with power consumption less than 25% & Connected two floor on single UPS
• Weekly swiching off one UPS of Workstation & Data Center
• Canteen lights and fan operational controlled on auto timer.
• Timer based management for signboard lights
• Chiller Cooling Management by changing operational method based on low & High tariff hrs

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving measures	5%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1100.0 lakhs
	O & M cost:	200.0 lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not applicable	Not applicable	Not applicable

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	-	14.0	3.0
2	Solid Waste Management	-	7.0	1.5
3	Rain Water Harvesting	-	15.0	3.0
4	Green Belt	-	25.0	5.0
5	Energy saving features	-	1100.0	200.0
6	Firefighting cost	-	100.0	20.0
7	Monitoring of Environmental Parameters	-	1.5	1.0
8	TOTAL	-	1262.5	233.5

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 no (T) junction
Parking details:	**Number and area of basement:**	1 basement with 5376 sqm
	Number and area of podia:	NA
	Total Parking area:	4410 sq.m
	Area per car:	20.78 Sq. Mt.
	Area per car:	20.78 Sq. Mt.
	Number of 2-Wheelers as approved by competent authority:	653 nos
	Number of 4-Wheelers as approved by competent authority:	153 nos
	Public Transport:	NA
	Width of all Internal roads (m):	6 mtrs.
	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 B: 8 (a)
	Court cases pending if any	Show Cause Notice received from Environment Department vide no. SEAC-2212/CR-502/TC-2 dtd. 04/07/2014. MPCB has filed case in the Court of Chief Judicial Magistrate at Pune vide Regular Criminal Case no. 0404433 of 2015. The said case is pending for decision & Closure.
	Other Relevant Informations	We had submitted our application for Environment Clearance to SEAC on 11th Aug 2012. Further as per amendment in EIA notification dtd. 14th March 2017 we had submitted our proposal under violation to MoEF on 2ndAug 2017 (vide Proposal No. IA/MH/NCP/67117/2017). Now as per MoEF OM dated 15th March 2018 and 16th March 2018 we are submitting our application to SEAC/ SEIAA along with necessary documents.
	Have you previously submitted Application online on MOEF Website.	Yes

	Date of online submission	02-08-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 44,043.00 m2, FSI area of 36,629.82 m2, Non FSI area of 15,860.61 m2 and total BUA of 52450.43 m2.

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

Now, the PP has applied as per the MoEF&CC Notification dated 14/03/2017 and 8/03/2018.

DECISION OF SEAC

After deliberation, Committee hereby accords approval to the following Terms of Reference for undertaking Environment Impact Assessment (EIA) and preparation of Environment Management Plan (EMP) for further discussion and consideration of SEAC:

Terms of Reference for EIA and preparation of Environment Management Plan (EMP) for Violation Cases

1. **Project Description**

1. Project description, its importance and the benefits.

2. Project site details (location, topo-sheet of the study area of 10 Km, Coordinates, google map, layout map, land use, geological features and geo-hydrological status of the study area, drainage). Hydro-geological survey report with graphs & data.

3. Land use as per the approved Master Plan of the area, Permission/approvals required from the land owning agencies, Development Authorities, Local Body, Water supply & Sewerage Board, etc.

4. Land acquisition status, R & R details.

5. Forest and Wildlife and eco-sensitive zones, if any in the study area of 10 km. Any sensitive areas in impact zone such as archaeological structures, reserved forest, noise sensitive zones etc. Clearances required under the Forest (Conservation) Act, 1980, the Wildlife (Protection) Act, 1972 and/or the Environment (Protection) Act, 1986.

6. (G) High Tension wires if any on the plot.

7. (G) Plan showing HFL.

8. (G) Permissions granted by State Government in tabular and chronological form. Comparative statement of components approved and components constructed as per earlier EC (if applicable) and proposed development.

9. (G) PP to submit the detailed master plan indicating already completed construction and proposed construction. PP to submit the certificate from architect for completed work

2. **Base Line Data**

10. (B) Baseline environmental study for ambient air (PM_{10}, $PM_{2.5}$, SO_2, NO, & CO),water (both surface and ground), noise and soil for one month (except monsoon period) as per MoEF&CC/CPCB guidelines at minimum 5 locations in the study area of 10 km. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory duly notified under the Environment (Protection) Act,1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.

11. (C) Detail on flora and fauna and socio-economic aspects in the study area. Details of tree cutting, tree transplantation and survival report of existing trees.

12. (C) Likely impact of the project on the environmental parameters (ambient air surface and ground water, land, flora and fauna and socio-economic, etc.)

13. (B) Source of water for different identified purposes with the permissions required from the concerned authorities, both for surface water and the ground water (by CGWA) as the case may be, Rain water harvesting, etc.

14. (G) Socio-economic infrastructure details including public transport arrangements on the site; PP to mention details of socio-economic in EIA.

15. (G) PP to submit contour map with slopes, drainage pattern of the site and surrounding area. Layout showing natural water courses on site; total runoff calculation before and after development.

16. (C) PP to submit details of existing trees, proposed to be cut, proposed to be transplanted along with tree survival report

3. **Traffic Impact Study in detail including:**

17. (V) Traffic Management Plan for the development – Internal circulation indicating road width and turning radius. Cross section of roads at four places showing clear road width, distance left from building line, spaces left for plantation, footpath, service lines etc.

18. (V) Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project showing the time period taken.

19. (V) Topographic details of roads and intersection of the surrounding roads where counts are taken, actual geometry on ground to be shown with dimensions.

20. (V) Traffic generation values of similar development to be given by actual count by actual count as support data for assumption made to the particular project.

21. (V) Parking statement mentioning parking as per DCR & parking provided actually.

22. (V) Basement ventilation plan: Fire Tender Movement Plan showing clear road and turning radius. Cross section of roads at four places including UGT, OWC and DG set location showing clear road width and distance left from building line & spaces left for plantation, parking, service lines, foot paths, etc.

4. **Environmental Impact and Management Plan:**

23. (B) Identify sources of air pollution, indicate mitigation measures to reduce Air pollution/Noise pollution.

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

25. (B) Management of solid waste and the construction & demolition waste for the project vis-a-vis the Solid Waste Management Rules 2016 and the Construction & Demolition Rules, 2016. Transport, collection, storage and disposal for all types of wastes like hazardous waste, non-hazardous waste, solid waste, E– waste, and debris/excess earth etc. PP to provide the detailed solid waste management plan along with marked locations on the master plan. Design details of waste processing equipment such as OWC/biogas plants confirming to the technical requirements to meet the quality products.

26. (B) Waste water management (treatment, reuse and disposal) for the project and also the study area. Design of all STP's along with BOD load, oxygen requirement calculations and sizing of the tanks with respect to the design criteria. PP to submit detailed calculation for the disinfection of the treated STP water; PP to submit cross sectional drawing of STP's showing dimensions and ground level; PP to provide ozonation for tertiary treatment. PP to mark the area required for all STP's on master layout with dimensions

27. (J) PP to show internal storm water drain and sewer line arrangements up to final disposal point.

28. (C) Provision of mandatory RG area on virgin land and submit the drawing with calculations, ensuring entire mandatory RG is provided on the plot where residential buildings are proposed.

29. (G) A detailed phase wise development plan with safety planning where occupancy has been given.

30. (T) If any site specific structures such as creation of water body, alteration of natural storm water, large alteration of slopes, creation of green areas abutting to water bodies / natural storm water drain / river etc, is involved, detailed environmental protection approach for the same shall be provided.

31. (D) Separate chapter on Renewable energy in EIA report. PP to submit terrace plan for installing solar panels& calculations of energy saving; Energy efficient measures (LED lights, solar power, etc.) during construction as well as during operational phase of the project. Report on ECBC compliance.

32. (D) Provide details of Solar PV and Solar water heater in the specific format. PP to carryout shadow analysis for identifying the roof-top area for providing solar panels

33. (B) Environmental status report including analysis reports of all environmental pollution reduction facilities if any commissioned.

34. (K) PP to submit Disaster management plan.

35. (B) Preparation of site specific, executable and auditable environment management plan (EMP)

5. **Environmental Modelling and additional Studies:**

36. (B) Fugitive dust modelling by using local meteorological data.

37. (B) Ecological footprint calculation using LCA approach.

38. (B) Estimation of Carbon footprint of the project.

39. (B) Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection of data and sample analysis shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986 or Environmental Laboratory accredited by NABL, or a laboratory of council of Scientific and Industrial Research (CSIR) institution working in the field of environment.

40. (B) Gate mass balance analysis for environmental parameters related to solid/liquid waste material coming to site, waste generated and its treatment and disposal from site.

41. (K) Preparation of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.

6. **NOCs, Undertakings and CER:**

42. (T) NOC's required: a) CFO NOC, b)Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.

43. (T) Undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.

44. (K) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF&CC circular dt. 01.05.2018, along with details of fund utilization & agreement or consent of executor.

45. PP to refer "approach paper for assessment for environmental damage and estimation of remediation costs for building construction projects initiated with obtaining mandatory environmental clearance" available on the portal : "ecmpcb.in".

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

91st SEAC-3 Meeting Day 01

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for for project by M/s Army Welfare Housing Organisation

Is a Violation Case: Yes

1.Name of Project	TUCKER AWHO ENCLAVE(PH-2)
2.Type of institution	Private
3.Name of Project Proponent	Col. R. P. S. Rawat
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 16,17,18(P),Gondhale Nagar, Near Swami Samarth Math, Hadapsar
9.Taluka	Haveli.
10.Village	Hadapsar
Correspondence Name:	Col. R. P. S. Rawat
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	S. No. 16,17,18(P),
Locality:	Gondhale Nagar, Near Swami Samarth Math, Hadapsar,
City:	Pune-411028
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: 29-01-2011
	Approved Built-up Area: 135500.39
13.Note on the initiated work (If applicable)	135440.39 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	66660.75 m2
16.Deductions	16798.63 m2
17.Net Plot area	49862.12 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 74291.75 m2
	b) Non FSI area (sq. m.): 61208.64 m2
	c) Total BUA area (sq. m.): 135500.39
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 74291.75 m2
	Approved Non FSI area (sq. m.): 61208.64 m2
	Date of Approval: 29-01-2011
19.Total ground coverage (m2)	17621.14 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	26.43 % of Total plot area (66660.75 m2) & 35.33 % of Net plot area (49862.12 m2)
21.Estimated cost of the project	2100000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	MDA (Cluster-A)-2 Buillding	S + 4	14.90
2	LUXURY (Cluster-B)-3 Buildings	S + 4	14.90
3	LUXURY (Cluster-C)-4 Buildings	S + 6	20.90
4	SUPER DELUXE (Cluster-D)-4 Buildings	S + 6	20.90
5	SUPER DELUXE (Cluster-E)-4 Buildings	S + 6	20.90
6	LUXURY (Cluster-F)-4 Buildings	S + 6	20.90
7	SUPER DELUXE (Cluster-G)-4 Buildings	S + 4	14.90
8	Convenience shopping	G+1	5.90

23.Number of tenants and shops	Total Tenements – 528 Nos. Convenience shopping- 1 No, Bank- 1No. Defence Canteen- 1No.
24.Number of expected residents / users	Residential Users : 2640 Nos. Convenient shopping Users : 30 Nos. Total Users : 2670 Nos.
25.Tenant density per hectare	80/H
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Not Applicable
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	380.25 m3/day (One Time)
	Recycled water - Flushing (CMD):	119.61 m3/day
	Recycled water - Gardening (CMD):	22.50 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	238.14 m3/day
	Fire fighting - Underground water tank(CMD):	100 m3
	Fire fighting - Overhead water tank(CMD):	250 m3
	Excess treated water	179.87 m3/day
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	357.75 m3/day (One Time)
	Recycled water - Flushing (CMD):	119.61 m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	238.14 m3/day
	Fire fighting - Underground water tank(CMD):	100 m3
	Fire fighting - Overhead water tank(CMD):	250 m3
	Excess treated water	202.37 m3/day
Details of Swimming pool (If any)	-	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Minimum:-0.75 m BGL Maximum:- 4.5 m BGL
	Size and no of RWH tank(s) and Quantity:	6 Nos.
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6 Nos.
	Size of recharge pits :	2.0 m. X 2.0 m. X 1.5 m. Depth
	Budgetary allocation (Capital cost) :	Rs 110.00 Lakh
	Budgetary allocation (O & M cost) :	Rs. 12.00 Lakh /Year
	Details of UGT tanks if any :	Existing: Domestic and Flushing UG tank Capacity : 158 m3 Fire UG tank Capacity : 100 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	15492.53 m3 /year
	Size of SWD:	450mm-1200 mm
Sewage and Waste water	**Sewage generation in KLD:**	321.98 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	325 m3/day (Existing)
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	Rs. 137.00 Lakh
	Budgetary allocation (O & M cost):	Rs.12.48 Lakh/Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	45 kg/day
	Disposal of the construction waste debris:	Use for Leveling
Waste generation in the operation Phase:	**Dry waste:**	532.50 kg/day
	Wet waste:	795.00 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	28.98 kgs/day (100% dry)
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized Vendor
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after Treatment in OWC
	Others if any:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	60.00m2 including machinary area
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 20.00 Lakh
	O & M cost:	Rs.4.56 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	500 KVA – 1 No(Existing)	407.2 Liters on 24 hrs running basis.	S-1	3.5 Mtr.	will be provided	will be provided

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	407.2 Liters on 24 hrs running basis.	NA	407.2 Liters on 24 hrs running basis.
41.Source of Fuel		Bharat Petroleum Corporation Ltd/ Hindustan Petroleum		
42.Mode of Transportation of fuel to site		By Roadways		

43.Green Belt Development	**Total RG area :**	7667.44 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	535 Nos already planted
	List of proposed native trees :	-
	Timeline for completion of plantation :	Completed

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Magnolia champaca	Sonchafa	144	Magnolia Champaca is cultivated by specialty Nurseries as an ornamental plant, for its form as an ornamental tree, as a dense screening hedge and for its fragrant flowers
2	Saraca indica	Ashoka	34	Shade, Cultural aspects and medicinal value
3	Nyctanthes arbor-tristis	Parijata	18	Antibacterial and antifungal presence in bark, leaves and fruits. Oil from flowers is used as perfume. Shady in summers
4	Hibiscus rosa-sinensis	Hibiscus	108	Aesthetically sound and medicinal
5	Hyophorbe indica	Champagne Palm	35	Aesthetically sound, tall and shady
6	Ficus benjamina	Ficus	60	Adaptive to changes, can grow in scarcity of water and light, fruits are edible and aesthetically sound
7	Platycladus orientalis	Morphankhi	6	Bushy medium sized plant having several stems. Thuja is high in medicinal value as well as its conical shape and cones are of high aesthetic values
8	Juniperus communis	Juniper	7	It is dioecios, with male and female cones on separate plants, which are wind pollinated. Aesthetically sound
9	Schefflers arboricola	Schefflers Arboricola	15	Popular for its tolerance of neglect and poor growing conditions. It is also grown as a landscape plant in milder climates where frosts are not severe
10	Roystonea regia	Royal Palm	35	Tall, beautiful and aesthetically sound
11	Nolina recurvata	Bottle Palm	2	Adjustable top most of the tropical and is adaptive too. Looks elegant as it has high aesthetic value

12	Bougainvillea glabra	Bougainvillea	40	An ornamental shrubby climbing plant that is widely cultivated in tropics. The insignificant flowers are surrounded by large, brightly coloured papery bracts which persist on the plant for a long time
13	Ficus exasperate	Banyan Tree	1	The tree has smooth grey bark. Alternately arranged, ovate-eliptic leaves have a very rough surface, making them look like sand pepper. Aesthetically high value
14	Wodyetia bifurcta	Wodyetia palm	30	The tree grows up to 30 fts tall, aesthetically high and shady
45.Total quantity of plants on ground				

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

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

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	82.5KVA-1 No.
	During Operation phase (Connected load):	2955 KW
	During Operation phase (Demand load):	3694 KVA
	Transformer:	7 Nos. x 630 KVA(Existing)
	DG set as Power back-up during operation phase:	1 No. x 500 KVA(Existing)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- By Using T5 / PL Bulkhead Lamps & Electronic Ballast
- External Street Lighting will be on LED fixtures
- Saving Due to CFL / T5 Lamp
- Saving Due to Electronic Ballast
- Saving Due to VFD and Efficient Pump

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	By Using 12W LED lamp	33%

2	By Using BEE FIVE star certified Air conditioners	10%
3	By Using Solar Water heater system:-	15%
4	By Using 9W PL Bulkhead lamp for Terrace & Outside building lighting	75%
5	By Using electonic ballast	20%
6	By Using VFD and high effiecient pump	20-30%
7	By Using LED for External Lighting	70%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Green Belt is developed	-
Water	STP is installed & excess treated water used for flushing & gardening.	-
Noise	Acoustically enclosed DG set is brought & installed.	Traffic management plan to be prepared. Noise monitoring will be done in once a fortnight.
Solid Waste	Solid waste is handed over to corporation garbage container.	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. 84.00 Lakh
	O & M cost:	Rs. 0.18 Lakh/Year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Sewage Treatment Plant	137.00 Lakh	12.48 Lakh/Year
2	RWH	Rain Water Harvesting	110.00 Lakh	12.00 Lakh/Year
3	MSW	Municipal Solid Waste	20.00 Lakh	4.56 Lakh/Year
4	Solar energy	-	84.00 Lakh	0.18 Lakh/Year
5	Landscaping	-	252.00 Lakh	4.23 Lakh/Year
6	Safety Equipment	-	10.00 Lakh	2.00 Lakh/Year

7	Post EC Monitoring	-	-	2.50 Lakh/Year
8	Dry Waste Management	-	-	3.16 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:	20688.40 m2
	Area per car:	36.87 m2
	Area per car:	36.87 m2
	Number of 2-Wheelers as approved by competent authority:	784
	Number of 4-Wheelers as approved by competent authority:	561
	Public Transport:	-
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)

	Court cases pending if any	NA
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 66660.75 m2, FSI area of 74291.75 m2, Non FSI area of 61208.64 m2 and total BUA of 135500.39 m2.

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

DECISION OF SEAC

During discussion following points emerged:

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

2. PP informed that construction of 1st Phase of the project was completed in 2015. PP to submit proof that the plinth of the same was completed and certified by competent authority before 7th July, 2004.

3. PP to revise traffic impact assessment report with projection for next 5,10 and 15 years for V/C ratio and levels of services.

4. PP to submit fire tender movement plan indicating drive ways all around property. PP to submit cross sections of the road.

5. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per car as per norms. PP to submit approved plan of competent authority.

6. PP to submit the Plan showing alignment of storm water drain, the depth along with chambers and final disposal point & section through the internal road. showing place left for planting of trees. Sewage water drain internal road and space left between, building & internal Road.

7. PP to submit geo-hydrological report.

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

9. PP to carry out assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection of data and sample analysis shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986 or Environmental Laboratory accredited by NABL, or a laboratory of council of Scientific and Industrial Research (CSIR) institution working in the field of environment. PP to refer "approach paper for assessment for environmental damage and estimation of remediation costs for building construction projects initiated with obtaining mandatory environmental clearance" available on the portal : "ecmpcb.in".

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

91st SEAC-3 Meeting Day 01

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for 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	M/s. Cavalcade Properties 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	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 42 (parts)
9.Taluka	Haveli
10.Village	Mohammadwadi
Correspondence Name:	Mr. Anil Mathur/ M/s. Cavalcade Properties Pvt. Ltd.
Room Number:	-
Floor:	-
Building Name:	Site Office
Road/Street Name:	Near Cloud 9 Society NIBM Road
Locality:	Mohammadwadi
City:	Pune
11.Whether in Corporation / Municipal / other area	Project falls under Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Building plan is yet to approved by Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: Building plan is yet to approved by Pune Municipal Corporation
	Approved Built-up Area:
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.)	26865.96 m2
16.Deductions	3577.67 m2
17.Net Plot area	23288.29m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 63421.54 m2
	b) Non FSI area (sq. m.): 48234.39 m2
	c) Total BUA area (sq. m.): 111655.93
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.): -
	Date of Approval: 15-01-2020
19.Total ground coverage (m2)	2742.40 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	10.43%
21.Estimated cost of the project	2440000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A 1	1B +2P+2 Podium+26 floors	93.64
2	Building A 2	1B +2P+2 Podium+26 floors	93.64
3	Building A 3	1B +2P+2 Podium+26 floors	93.64
4	Building A 4	1B +2P+2 Podium+26floors	93.64
5	Building A 5	1B +2P+2 Podium+26 floors	93.64
6	Building B	B+G+3Podium+ 09 floors	38.99
7	Club House	G+ 1 floor	9.00

23.Number of tenants and shops	Tenements: 851 nos. Commercial area: 237.23m2 Shops – 10 nos
24.Number of expected residents / users	Residential- 4255 Commercial- 80 Floating- 700, Total User : 5035
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)	24 m and 30 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation/Recycled
	Fresh water (CMD):	395 m3/day
	Recycled water - Flushing (CMD):	191 m3/day
	Recycled water - Gardening (CMD):	47 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	633 m3/day
	Fire fighting - Underground water tank(CMD):	375 m3
	Fire fighting - Overhead water tank(CMD):	As per Fire NOC
	Excess treated water	235 m3/day
Wet season:	**Source of water**	Pune Municipal Corporation/Recycled
	Fresh water (CMD):	395 m3/day
	Recycled water - Flushing (CMD):	191 m3/day
	Recycled water - Gardening (CMD):	24 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	609 m3/day
	Fire fighting - Underground water tank(CMD):	375 m3
	Fire fighting - Overhead water tank(CMD):	As per Fire NOC
	Excess treated water	259 m3/day
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	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:**	From 24 to 28M (as per Geological investigation report)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	11 Dry Bores & 6 recharge Pits
	Size of recharge pits :	Recharge Pit- 2.50 x 2.50 x 2.40 M Dry Bore – 1.80 x 2.40 x 30 M
	Budgetary allocation (Capital cost) :	Rs. 123.00 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 10.00 Lakhs /annum
	Details of UGT tanks if any :	For A Buildings: Recycle Water: 43m3 Fire-fighting: 300 m3 Drinking Water Storage: 200 M3/Day Domestic Water Storage: 370 M3/Day For B Buildings: Recycle Water: 10 m3 Fire-fighting: 75 M3/Day Drinking Water Storage: 179 m3 Domestic Water Storage: 331 m3
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	47.75 m3/hr.
	Size of SWD:	The pipe diameter proposed within the premises is 300 mm to 600mm. The open Channel crossing the plot is having width 2.00 M.
Sewage and Waste water	**Sewage generation in KLD:**	498 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	STP- 1 for A Building : 440M3/Day & STP-2 for B Building : 70M3/Day
	Location & area of the STP:	Location: On Ground in decentralized manner. Area : 350.00 Sq. M.
	Budgetary allocation (Capital cost):	Rs. 195.00 Lakhs
	Budgetary allocation (O & M cost):	Rs. 25.00 Lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated soil, construction concrete, cement bags, CLC blocks, bricks, broken tiles, Scarp metals etc. will be generated
	Disposal of the construction waste debris:	Construction debris will be used for backfilling, site leveling, internal road preparation. Top soil will be used for landscaping. Maximum construction waste will be reused on site and remaining will be handed over to authorized vendor.
Waste generation in the operation Phase:	**Dry waste:**	1030 kg/day
	Wet waste:	1300 kg/day
	Hazardous waste:	Small quantity of DG set used oil, paints etc.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	35 kg/day
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorized vendor
	Wet waste:	Will be treated in Smart Mechanical 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:	-
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	(20 Sq. M.- Storage) Storage Area – 16 (OWC-1) + 15 (OWC -2) = 31 Sq. M.
	Area for machinery:	Area for the storage of waste & other material Area for machinery- 120 m2 (100 Sq. M. for machinery) Machine Area – 48 Sq. M. (OWC-1) + 45 Sq. M. (OWC-2) = 93 sq. M.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 41.50 Lakhs
	O & M cost:	Rs. 9.38 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable
41.Source of Fuel		Not applicable		

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	2,328.83 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	292
	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	Azadirachta Indica	Neem	21	-Fragrant flowers or leaves, Attracts -Birds/ Butterflies/Bees, -deepgreen, Shiny foliage
2	Cassia Fistula	Bahava	19	Auspicious -attracts birds/bees/butterfiles -hanging or weeping growth
3	Neolamarckia Cadamba	Kadamb	10	Fragrant flowers or leaves -attracts butterflies/bees -quick groving/creates shade
4	Pongamia Pinnata	Indian beech tree	6	Fragrant flowers or leaves -attracts birds/butterflies/bees -drought tolerant
5	Lagerstromia Speciosa	Taman	11	-Creates shade -attracts birds/butterflies/bees -good for screening
6	Michelia Champaka	Pivala chafa	13	-Fragrant flowers or leaves -attracts birds/butterflies/bees -evergreen tree
7	Bauhinia Purpurea	Rakt kanchan	17	Fragrant flowers or leaves -plant for pooja -evergreen tree
8	Melia Azedarach	Persian lilac	17	-Fragrant flowers or leaves -attracts birds/butterflies/bees -medicinal uses
9	Artocarpus Heterophyllus	Jack fruit	19	Fruit bearing -evergreen -commercial value
10	Aegle Marmelos	Bel	11	-Fruit plant/medicinal plant -fragrant flowers or leaves -plant for puja or prayer flower or leaves
11	Syzygium Cumini	Jamun	24	-Fruit plant -fragrant flowers or leaves -attracts birds/butterflies/bees
12	Mangifera Indica	Mango	13	Fruit plant -fragrant flowers or leaves -attracts birds/butterflies/bees
13	Butea Monosperma	Palas	14	Fragrant flowers or leaves -flowers covering the entire crown -plant for pooja
14	Putranjiva Roxburghii	Putranjiva	07	Medicinal tree -moderate sized evergreen -pendant branches

15	Terminalia Arjuna	Arjun	09	Medicinal tree -large sized evergreen -spreading crown and drooping branches
16	Senna Siamea	Kassod	12	Quick growing trees -attracts birds/butterflies/bees -evergreen tree
17	Toona Ciliata	Indian Mahogany	11	-Evergreen tree -attracts birds/butterflies/bees -quick growing tree
18	Albizia Lebbeck	Shirish	13	-Fragrant flowers or leaves -attracts birds/butterflies/bees -drought tolerant
19	Manilkara Zapota	Chikoo	11	Fruit plant -fragrant flowers or leaves -attracts birds/butterflies/bees
20	Teminalia Catappa	Badam	10	Quick growing tree -creates shade -attracts birds/bees
21	Mimusops Elengi	Bakul	09	-Fragrant flowers or leaves -attracts birds/bees -evergreen tree/creates shade
22	Bauhinia Racemosa	Apta	15	-Moderate sized deciduous tree -plant for puja or prayer flower or leaves
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	Tulas	0.30	7
2	Acalypha goderej	0.30	9.25
3	Plumbago Capensis	0.45	24.50
4	Ratrani	0.45	22.00
5	Tecoma Gaudichaudi	0.45	25.60
6	Shambhukas Nigra	0.45	37.40
7	Cassia Glauca	0.45	12.00
8	Thivetia	0.45	26.00
9	Sontakka	0.30	15.00
10	Hamelia Dwarf	0.30	33.00
11	Hibiscus Red	0.45	18.00
12	Myna Erecta	0.45	12.00
13	Spider Lily	0.30	20.00
14	Galphimia	0.45	10.00
15	Wedellia	0.23	15.00
16	Mogra	0.45	18.00
17	Oliender Pink	0.45	13.25
18	Lantana Depressa	0.35	25.00
19	Kamini	0.45	10.50
20	Tagar variegated	0.35	21.50
21	Kunda	0.30	10.00
22	Aboli	0.35	20.00

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	1 no. x 125 KVA
	During Operation phase (Connected load):	5181 KW
	During Operation phase (Demand load):	3045KVA
	Transformer:	05 nos. x 630 KVA
	DG set as Power back-up during operation phase:	3 No's of 250 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy saving by non-conventional method
- Common area lighting in Lift lobbies, Parking, Passage & Street light with LED lamp.
- 1% Of Solar PV generation on total Connected load.
- Timer switches are proposed for common area lighting.
- High Efficiency transformers as per MSEDCL requirements

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Percentage of saving by Energy saving	Percentage of saving by Energy 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:**	Rs. 49 Lakhs
	O & M cost:	Rs. 2.5 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	To control air pollution	2
2	Site Sanitation, Disinfection& Safety	To maintain hygienic condition	1.5

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

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	123.00	10.00
2	Sewage Treatment Plant	To treat sewage	195.00	25.00
3	Smart Mechanical CoMposting	To treat biodegradable solid waste	41.50	9.71
4	Green Belt Development	Tree plantation	53.55	5.50
5	Energy saving	energy saving	49	2.50
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	Included in the above	-
8	Laying of Sewer line up to final disposal point	For proper disposal of sewage	Included in the above	-
9	Environment Management Cell	To manage environmental issues	-	7.8

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Site is connected to 24 m & 30 M wide DP road at two different locations.

Parking details:	**Number and area of basement:**	No.ofbasement:01ineachbuildingAreaofbasementBldgA:3666.92m2 & Bldg B:468.30m2
	Number and area of podia:	No.ofPodium:02inAbuilding(A1toA5) TotalAreaofpodium:5215.00m2
	Total Parking area:	A building- 19199.63 Sq.m. B Building- 3675.00 Sq.m.
	Area per car:	A Building: Basement 1 – 26.00Sq.m, Podium1-33.64Sq.m., LowerGround-25.17 Sq.m.Upperground-26.40Sq.m., B Building: Basement 1 – 31.22 Sq.m Ground-40.80Sq.m. Parking Lvl1to 3-36.00Sq.m
	Area per car:	A Building: Basement 1 – 26.00Sq.m, Podium1-33.64Sq.m., LowerGround-25.17 Sq.m.Upperground-26.40Sq.m., B Building: Basement 1 – 31.22 Sq.m Ground-40.80Sq.m. Parking Lvl1to 3-36.00Sq.m
	Number of 2-Wheelers as approved by competent authority:	Scooters required: 1809 Provided: 1809
	Number of 4-Wheelers as approved by competent authority:	Cars required: 859 Provided: 859
	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 category
	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

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 26865.96 m2, FSI area of 63421.54 m2, Non FSI area of 48234.39 m2 and total BUA of 111655.93 m2.

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

DECISION OF SEAC

During discussion following points emerged:

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

2. PP to submit plan approved for 3 basements.

3. PP to submit High Rise NOC.

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

5. PP to submit details and drawings of internal storm water up to final disposal point with invert levels of last chamber. PP to indicate RWH pits separately for recharging rain water from terrace and surface.

6. PP to clarify whether there is any existing drain or natural nalla along with invert levels.

7. PP to submit geo-hydrological report.

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

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

10. PP to submit UGT sections.

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

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

91st SEAC-3 Meeting Day 01

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for Proposed Residential Project

Is a Violation Case: No

1.Name of Project	'Sai Vista'
2.Type of institution	Private
3.Name of Project Proponent	MR. KANHAIYALAL HOTCHAND MATANI
4.Name of Consultant	Mr. Rajesh Srivastava - Pollution and Ecology Constrol Services (PECS)
5.Type of project	Residential
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. NO. 31/2,32/2A/2/1/1,32/2A/2/2,32/2A/2/3,32/2A/2B,32/2B,32/2C
9.Taluka	Haveli
10.Village	Rahatani, Pune
Correspondence Name:	MR. KANHAIYALAL HOTCHAND MATANI
Room Number:	F No 25(P)
Floor:	Ground Floor
Building Name:	DWARKADHISH RESIDENCY,
Road/Street Name:	SHIVAR CHOWK,
Locality:	PIMPLE SAUDAGAR,
City:	PUNE
11.Whether in Corporation / Municipal / other area	Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	PCMC
	IOD/IOA/Concession/Plan Approval Number: BP/ EC/RAHATANI/01/2019
	Approved Built-up Area: 36951.95
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.)	10350 sqm
16.Deductions	0
17.Net Plot area	10350 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 16423.26
	b) Non FSI area (sq. m.): 20528.69
	c) Total BUA area (sq. m.): 36951.95
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 16423.26
	Approved Non FSI area (sq. m.): 20528.69
	Date of Approval: 24-01-2019
19.Total ground coverage (m2)	1701.08
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	16%
21.Estimated cost of the project	1100000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	2P+11	36
2	Building B	2P+11	36
3	Building C	2P+11	36
4	Building D	2P+11	36
5	Building E	2P+11	36
6	Building F	2P+11	36

23.Number of tenants and shops	252
24.Number of expected residents / users	1260
25.Tenant density per hectare	243
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
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	117.9
	Recycled water - Flushing (CMD):	56.7
	Recycled water - Gardening (CMD):	6.24
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	180.84
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120
	Excess treated water	94.2
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	117.9
	Recycled water - Flushing (CMD):	56.7
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	174.60
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120
	Excess treated water	100.44
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Below 11 m on an average
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5 Nos
	Size of recharge pits :	Recharge pits 1.2 m X 1.2 m x 2.5 m with bore- dia 160 mm and 60 m depth.
	Budgetary allocation (Capital cost) :	6 Lakh
	Budgetary allocation (O & M cost) :	0.3 Lakh /Year
	Details of UGT tanks if any :	Domestic - 255 CMD, Flushing - 48 CMD, Fire - 300 CMD
35.Storm water drainage	**Natural water drainage pattern:**	Contour map attached
	Quantity of storm water:	7.97 m3/Min
	Size of SWD:	300 MM
Sewage and Waste water	**Sewage generation in KLD:**	157.14
	STP technology:	MBBR
	Capacity of STP (CMD):	170 KLD
	Location & area of the STP:	As shown on Plan 102 Sqm
	Budgetary allocation (Capital cost):	46 Lakh
	Budgetary allocation (O & M cost):	7.15 Laks/Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	5 Kg/Day
	Disposal of the construction waste debris:	Will be used for base course preparation.
Waste generation in the operation Phase:	**Dry waste:**	252 Kg/Day
	Wet waste:	378 Kg/Day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	13 Kg/Day
	Others if any:	E Waste of 630Kg/Year

Mode of Disposal of waste:	**Dry waste:**	Handed over to Authorized Agency
	Wet waste:	In-situ Composting
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Gardening
	Others if any:	E Waste will be Handed over to Authorized Agency
Area requirement:	**Location(s):**	Shown on Plan
	Area for the storage of waste & other material:	63 Sqm
	Area for machinery:	Considered in Above Area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	5 Lakh
	O & M cost:	0.75 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 :**	1035 Sqm
	No of trees to be cut :	0
	Number of trees to be planted :	132
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	Till 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	NEEM	Azadirachta Indica	8	FRAGRANT FLOWERS OR LEAVES, PLANT FOR POOJA/EVERGREEN, QUICK GROVING/INSECT REPELLENT
2	BAHAVA	Cassia Fistula	7	AUSPICIOUS, ATTRACTS BIRDS/BEES/BUTTERFILES, HANGING OR WEEPING GROWTH
3	KADAMB	Neolamarckia Cadamba	9	FRAGRANT FLOWERS OR LEAVES, ATTRACTS BUTTERFLIES/BEES, QUICK GROVING/CREATES SHADE
4	MANGO	Mangifera Indica	12	FRUIT PLANT, FRAGRANT FLOWERS OR LEAVES, ATTRACTS BIRDS/BUTTERFLIES/BEES
5	TAMAN	Lagerstromia Speciosa	9	CREATES SHADE, ATTRACTS BIRDS/BUTTERFLIES/BEES, GOOD FOR SCREENING
6	PIVALA CHAFA	Michelia Champaka	7	FRAGRANT FLOWERS OR LEAVES, ATTRACTS BIRDS/BUTTERFLIES/BEES, EVERGREEN TREE
7	RAKT KANCHAN	Bauhinia Pururea	8	FRAGRANT FLOWERS OR LEAVES, PLANT FOR POOJA, EVERGREEN TREE
8	JAMUN	Syzygium Cumini	12	FRUIT PLANT, FRAGRANT FLOWERS OR LEAVES, ATTRACTS BIRDS/BUTTERFLIES/BEES
9	CHAFA	Plumeria ALba	3	FRAGRANT FLOWERS OR LEAVES, ATTRACTS BIRDS/BUTTERFLIES/BEES, QUICK GROVING/FOR POOJA
10	BUCH	Millingtonia Hortensis	11	FRAGRANT FLOWERS OR LEAVES, PLANT FOR POOJA, EVERGREEN TREE
11	SHIRISH	Albizia Lebbeck	12	FRAGRANT FLOWERS OR LEAVES, ATTRACTS BIRDS/BUTTERFLIES/BEES, DROUGHT TOLERANT

12	INDIAN BEECH TREE	Pongamia Pinnata	8	FRAGRANT FLOWERS OR LEAVES, ATTRACTS BIRDS/BUTTERFLIES/BEES, DROUGHT TOLERANT
13	JACKFRUIT	Artocarpus Heterophyllus	6	FRUIT PLANT, FRAGRANT FLOWERS OR LEAVES, ATTRACTS BIRDS/BUTTERFLIES/BEES
14	BAKUL	Mimusops Elengi	10	FRAGRANT FLOWERS OR LEAVES, ATTRACTS BIRDS/BEES, EVERGREEN TREE/CREATES SHADE
15	BEL	Aegle Marmelos	10	FRUIT PLANT/MEDICINAL PLANT, FRAGRANT FLOWERS OR LEAVES, PLANT FOR PUJA OR PRAYER FLOWER OR LEAVES
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)	75KW
	DG set as Power back-up during construction phase	82.5 KVA
	During Operation phase (Connected load):	1420 KW
	During Operation phase (Demand load):	672 KW
	Transformer:	1X630KVA, 1X315KVA
	DG set as Power back-up during operation phase:	1X180KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar powered water heating, Solar PV Panel power for common area lighting.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	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 etc.	24.85%

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:**	44.98 Lakh
	O & M cost:	2.19 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 Construction & labour	Water Requirement	1.2
2	Site Sanitation & Safety	Health & Safety	1.5
3	Environmental Monitoring	Pollution Monitoring & Control	3
4	Disinfection	Health & Safety	1.5
5	Health Check-Up	Health & Safety	1.5

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	6.00	0.30
2	Sewage Treatment Plant	Waste Water Management	46.00	7.15
3	Organic Waste Composting	Solid Waste Management	5.00	0.75
4	Tree Plantation	Landscape Development	10.00	2.00
5	Energy Saving	Energy Conservation	44.98	2.19
6	Environmental Monitoring	Pollution Control	0.00	3.00

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

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

52.Any Other Information

No Information Available		

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	0
	Number and area of podia:	7094.06 Sqm
	Total Parking area:	4342.6 Sqm
	Area per car:	12.5 sqm
	Area per car:	12.5 sqm
	Number of 2-Wheelers as approved by competent authority:	504
	Number of 4-Wheelers as approved by competent authority:	126
	Public Transport:	The site is well connected to the public transport infrastructure.
	Width of all Internal roads (m):	7.5
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category B
	Court cases pending if any	NO
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 10350 m2, FSI area of 16423.26 m2, Non FSI area of 20528.69 m2 and total BUA of 36951.95 m2.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC Meeting number: 91 **Meeting Date** July 24, 2019

Subject: Environment Clearance for Application for Environmental Clearance for Proposed Residential & Commercial project at S.no. 56/P, 57/P, 63/P C.T.S. NO. 1015/P at Nigdi, Pune.

Is a Violation Case: No

1.Name of Project	Proposed Residential & Commercial project at S.no. 56/P, 57/P, 63/P C.T.S. NO. 1015/P at Nigdi, Pune.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sachin Popatlal Nahar
4.Name of Consultant	Mr. Rajesh Srivastava - Pollution and Ecology Constrol Services (PECS)
5.Type of project	Slum Rehabilitation Project with Freesale area
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Nigdi
9.Taluka	Pune
10.Village	Nigdi
Correspondence Name:	Mr. Sachin Popatlal Nahar
Room Number:	701
Floor:	Seventh Floor
Building Name:	Pride Purple Accord
Road/Street Name:	Baner Road
Locality:	Baner
City:	Pune
11.Whether in Corporation / Municipal / other area	Slum Rehabilitation Authority
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: Applied
	Approved Built-up Area: 32990.47
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.)	7900.58 Sq.M.
16.Deductions	0
17.Net Plot area	7900.58 Sq.M.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 16661.24
	b) Non FSI area (sq. m.): 16981.11
	c) Total BUA area (sq. m.): 33642.35
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 16661.24
	Approved Non FSI area (sq. m.): 16329.23
	Date of Approval: 18-05-2019
19.Total ground coverage (m2)	455.72
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	58%
21.Estimated cost of the project	480000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	L.G. + U.G. + Stilt +1st PARKING +12 RESIDENTIAL	44.7
2	Building B	G + 1st PARKING + 13 RESIDENTIAL	43.2

23.Number of tenants and shops	Number of Tenements - 579 Number of Shops - 216
24.Number of expected residents / users	Residential users - 2895, Commercial users - 577
25.Tenant density per hectare	457
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9
29.Existing structure (s) if any	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**	P.C.M.C.
	Fresh water (CMD):	282
	Recycled water - Flushing (CMD):	145
	Recycled water - Gardening (CMD):	3.92
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	431
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	123
Wet season:	**Source of water**	P.C.M.C.
	Fresh water (CMD):	282
	Recycled water - Flushing (CMD):	145
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	427
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	127
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6.3 m. to 20 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
	Size of recharge pits :	2m. X 2m. X 2m.
	Budgetary allocation (Capital cost) :	1.8 Lakhs
	Budgetary allocation (O & M cost) :	1 Lakhs/Yr
	Details of UGT tanks if any :	Domestic - 423 Cum Fire - 150 Cum
35.Storm water drainage	**Natural water drainage pattern:**	East to North
	Quantity of storm water:	457 CmD
	Size of SWD:	450 mm & 600 mm width gutter
Sewage and Waste water	**Sewage generation in KLD:**	363
	STP technology:	M.B.B.R.
	Capacity of STP (CMD):	1 no. of 363 KLD
	Location & area of the STP:	Shown on drawing
	Budgetary allocation (Capital cost):	22 Lakhs
	Budgetary allocation (O & M cost):	12 Lakhs/Yr
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	5
	Disposal of the construction waste debris:	Shall be handed over to authorized agency
Waste generation in the operation Phase:	**Dry waste:**	536
	Wet waste:	804
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	31 Kgd
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Handed over to Authorized Agency
	Wet waste:	In-situ Composting
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	In-situ Composting
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Shown on Plan
	Area for the storage of waste & other material:	Shown on Plan
	Area for machinery:	Considered in Above Area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	9 Lakhs
	O & M cost:	1 Lakhs/Yr

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	790.05 Sq.m.
	No of trees to be cut :	Nil
	Number of trees to be planted :	99
	List of proposed native trees :	Shown Below
	Timeline for completion of plantation :	Till the completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia Lebbeck	Shirish	3	Shady tree, yellowish green fragrant flowers
2	Azadiracta Indica	Neem	3	Evergreen tree, fast growing
3	Saraca Asoka	Sita Ashok	3	Shady tree with red-yellow flowers
4	Anthocephallus cadamba	Kadamb	3	Shady, large tree, ball shaped flowers
5	Psidium guajava	Peru	3	Medium size , fruit bearing tree
6	Nyctanthes arbor-tristis	Parijatak	3	This Small tree has highly fragrant flowers those attract Bees and Butterflies, Fruits attract Birds.
7	Ochna obtusata	Kanak Champa	3	Native, this shrub has yellow fragrant flowers, Host plant for Butterflies.
8	Murraya paniculatum	Kamini/Kunti	3	Native to Western Ghats, this shrub has fragrant white flowers and dense foliage. It is a host plant for Butterflies.
9	Manilkara zapota	Chickoo	4	This small tree attracts Birds and Bees. Edible Fruit.
10	Citrus limon	Lemon	3	This Shrub is used in everyday Cooking and acts as a host plant for Butterflies.
11	Bauhinia racemosa	Apta	3	Native to Pune, this Shrub has a Religious importance
12	Mimusops elengi	Bakul	3	"Native, Evergreen Foliage and Flowering tree has dense branching, hence good for Wind screening. Flowers are deeply fragrant and attracts birds and Bees. Mimusops elengi "
13	Pongamia pinnata	Karanj	3	Native to Pune, this Deciduous White Flowering tree . Attracts Birds and Arboreal Mammals.
14	Mangifera indica	Mango	4	Tall, fruit bearing tree
15	Syzygium cumini	Jambhul	3	"Dense ornamental, fruit bearing tree "
16	Lagerstroemia reginae	Tamhan	3	This Purple Flowering plant is the State flower of Maharashtra.

17	Cassia fistula	Bahava	3	This Flowering and Deciduous tree has beautiful Yellow chandeliers in Summers. Good perching site for Birds.
18	Erythrina variegata	Pangara	3	Native to Western Maharashtra, this Reddish-Orange Flowering and Deciduous tree attracts lot of Birds for the Nectar.
19	Terminalia catapa	Badaam	4	Drought tolerant.
20	Terminalia arjuna	Arjuna	3	Large evergreen tree.
21	Bauhinia purpurea	Kanchan	3	Exotic tropical tree that blooms over a long period of time.
22	Michelia champaca	Son Chafa	3	Large evergreen tree.
23	Caryota urens	Fish Tail Palm	3	Flowering plant in the palm family.
24	Plumeria alba	Plumeria alba	3	Tree with elongated leaves, large and strongly perfumed white flowers with a yellow center. Ornamental plant.
25	Couroupita guianensis	Kailashpati	3	Deciduous tree. Flowering & Fruit Bearing. Medicinal properties.
26	Khaya anthotheca	Mahogany	3	Large, fast-growing, semi-deciduous tree with a dense crown.
27	Butea monosperma	Palas	3	Medium-sized dry season-deciduous tree.
28	Ficus glomerate	Cluster Fig	3	Deciduous tree. Medicinal Properties.
29	Cordia dichotoma	Indian Cherry	3	Flowering Tree.
30	Plumeria rubra	Frangipani	3	Tropical and sub-tropical deciduous tree.
31	Phyllanthus emblica	Indian gooseberry	3	Small to medium sized deciduous tree. Ayurvedic importance.
32	Dalbergia latifolia	Indian rosewood	3	Single-stemmed deciduous tree with a dome shaped crown of lush green foliage.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	25 Kw
	DG set as Power back-up during construction phase	40 Kva
	During Operation phase (Connected load):	980 Kw
	During Operation phase (Demand load):	686 Kw
	Transformer:	1 no. 630 Kva + 1 no. 315 Kva
	DG set as Power back-up during operation phase:	1 no. 125 Kva + 1 no. 82.5 Kva
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Energy Saving Measures Proposed
1. Using LED fixture in parking area, lift lobby and staircase.
2. Using LED in place of metal halide in external lights.
3. Using on grid solar generation for each building.
4. Using solar hot water system for each building.
5. Using LED fixture in all the internal toilet area.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	.	Saving - 16%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	100 Lakhs
	O & M cost:	3.6 Lakhs/Yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Construction & labour	Water Requirement	3
2	Site Sanitation & Safety	Health & Safety	1
3	Environmental Monitoring	Pollution Monitoring & Control	3

4	Disinfection	Health & Safety	0.5
5	Health Check-Up	Health & Safety	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH Pits	1.8	1
2	Sewage Treatment Plant	Waste Water Management	22	12
3	Organic Waste Composting	Solid Waste Management	9	1
4	Tree Plantation	Landscape Development	12	1
5	Energy Saving	Energy Conservation	100	3.6
6	Environmental Monitoring	Pollution Control	0	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:	0

Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Nil
	Total Parking area:	6225.82 Sq.m.
	Area per car:	12.5 Sq.m.
	Area per car:	12.5 Sq.m.
	Number of 2-Wheelers as approved by competent authority:	687
	Number of 4-Wheelers as approved by competent authority:	19
	Public Transport:	Nil
	Width of all Internal roads (m):	6
	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	B
	Court cases pending if any	Not applicable
	Other Relevant Informations	Nil
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 7900.58 m2, FSI area of 16661.24 m2, Non FSI area of 16981.11 m2 and total BUA of 33642.35 m2.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for Proposed Residential project "43 Privet Drive" at S. No. 43, Near Mitcon Institute, Balewadi, Tal. - Mulshi, Dist. – Pune by M/s. S. S. Properties.

Is a Violation Case: Yes

1.Name of Project	Proposed Residential project "43 Privet Drive" at S. No. 43, Near Mitcon Institute, Balewadi, Tal. - Mulshi, Dist. – Pune by M/s. S. S. Properties.
2.Type of institution	TOR
3.Name of Project Proponent	Mr. Sachin Bhandari
4.Name of Consultant	J. M. EnviroNet Pvt Ltd, Sayali jagtap-EIA co-ordinator-9960159156
5.Type of project	Residential project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 43, Near Mitcon Institute, Balewadi
9.Taluka	Mulshi
10.Village	Balewadi
Correspondence Name:	Sayali Jagtap
Room Number:	F3
Floor:	First floor
Building Name:	Dindayal nagar
Road/Street Name:	Medical college oad
Locality:	Katraj
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	Sanction received.
	IOD/IOA/Concession/Plan Approval Number: Sanction no. 0579/15 dated 25.05.2015
	Approved Built-up Area: 75546.13
13.Note on the initiated work (If applicable)	Total constructed area on site : 35296 sq. m (FSI 15972.1 sq. m + Non FSI 19323.9 sq. m)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	29334 sq. m
16.Deductions	7865.68 sq. m
17.Net Plot area	21468.32 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 35753.24 sq. m
	b) Non FSI area (sq. m.): 52045.51 sq. m
	c) Total BUA area (sq. m.): 87798.75
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 35753.24 sq. m
	Approved Non FSI area (sq. m.): 39792.89 sq. m
	Date of Approval: 25-05-2015
19.Total ground coverage (m2)	12622.65 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	58.79 %
21.Estimated cost of the project	1250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	Parking 1 + Parking 2 + 17 floors	58.32m
2	Building B	Parking 1 + Parking 2 + 17 floors	58.32m
3	Building C	Parking 1 + Parking 2 + 20 floors	69.95 m
4	Building D	Parking 1 + Parking 2 + 17 floors	58.32m
5	Building E	Parking 1 + parking 2 + Parking 3 + 17 floors	68.15 m
6	EWS building	Parking + 2 floors	8.91 m
7	Club house	Ground + 1 floor	7.80 m

23.Number of tenants and shops	Residential : 335 (Existing 204 + Proposed 131)
24.Number of expected residents / users	Residential : 1675 no's (Existing 1020 + Proposed 655)
25.Tenant density per hectare	114 per Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Existing 30 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	Building A : Parking 1 + Parking 2 + 17 floors Building B : Parking 1 + Parking 2 + 17 floors Building D : Parking 1 + Parking 2 + 17 floors Club House : Ground + 1 floors Swimming pool
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	150.75
	Recycled water - Flushing (CMD):	76.37
	Recycled water - Gardening (CMD):	42
	Swimming pool make up (Cum):	20
	Total Water Requirement (CMD) :	289.62
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	97.87
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	150.75
	Recycled water - Flushing (CMD):	76.37
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	20
	Total Water Requirement (CMD) :	247.62
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	139.87
Details of Swimming pool (If any)	• Dimension of Swimming Pool: Main Pool area : 204.82 sq. m , Kids pool area : 58.89 sq. m • Water requirement for make up in KLD: 20 kLD • Capital Cost: Rs. 61,25,000 /- • O & M cost: - Rs. 3,00,000 /-	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 22.00 m. to 37.00 m. BGL. Rainy Season – 7.20 m. to 22.00 BGL. Winter Season – 14.60 m. to 29.50 m. BGL
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	10 no's
	Size of recharge pits :	2 m x 2 m x 2 m with 60 m depth
	Budgetary allocation (Capital cost) :	Rs. 20,00,000 /-
	Budgetary allocation (O & M cost) :	Rs. 1,00,000 /-
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 170.49 KLD Flushing tank Capacity(cum) : 103.47 KLD Fire UG tank Capacity (cum) : 450 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	10826.07 m3 / year.
	Size of SWD:	60 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	216.24 KLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	STP : 280 KLD
	Location & area of the STP:	Area : 129.65 sq. m
	Budgetary allocation (Capital cost):	Rs. 45,54,000 /-
	Budgetary allocation (O & M cost):	Rs. 12,35,000 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	40 kg/day
	Disposal of the construction waste debris:	Within site
Waste generation in the operation Phase:	**Dry waste:**	335 kg/day
	Wet waste:	502.25 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	19.46 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	To authorized vendor
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure after treatment
	Others if any:	NA
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	25 sq. m
	Area for machinery:	50 sq. m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 16,75,000 /-
	O & M cost:	Rs. 5,30,000 /-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	Required open space (10 %) : 2560.04 sq. m Total RG area provided : 8938.74 Sq.m • RG on ground – 3144.98 Sq.m • RG on podium – 5185.46 sq. m • RG area under green belt – 492.50 sq. m RG area other than green belt (Jogging tracks, Pathways) : 116.80 sq.
	No of trees to be cut :	0
	Number of trees to be planted :	0
	List of proposed native trees :	299
	Timeline for completion of plantation :	Up to completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Baahava	49	Pollution tolerant and ornamental
2	Nyctanthes arbor-tristis	Parijat	2	Ornamental
3	Mimusops elengi	Bakul	29	Bird attracting/ Ornamental
4	Michelia champaka	Sonchafa	19	Ornamental
5	Millingtonia Hortensi	Indian cork tree	24	Ornamental
6	Bombax ceiba	Silk cotton tree	37	Ornamental
7	Plumeria Alba	Chafa	15	Ornamental
8	Lagerstroemia Indica	Crape myrtle	49	Ornamental/ drought tolerant
9	Bauhinia Variegata	Rakta Kanchan	31	Ornamental
10	Pongamia Glabra	Karanj	9	Nitrogen fixing ability/ Ornamental
11	Anthocephalus kadamba	Kadamba	12	Ornamental/ shade giving tree
12	Phoenix sylvestris	Date palm	3	Ornamental
13	Areca catechu	Betal nut palm	20	Ornamental
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Heliconia lady diana	400 mm	146.5
2	Lantana montevidensis alba	300 mm	13.3
3	Pennisetum setaceum alba	450 mm	69.8
4	Strelitzia reginae	600 mm	43.3
5	Ixora duffii pink	300 mm	29.7
6	Cyperus alternifolius	250 mm	2.4
7	Buddleja davidii	300 mm	53
8	Canna dwarf red	300 mm	89.5
9	Heliconia psittacorum	400 mm	35.8
10	Cestrum nocturnum	300 mm	-
11	Spathiphyllum wallisii	300 mm	17.81

12	Bambusa ventricosa	750 mm	72.91

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	25 KW
	DG set as Power back-up during construction phase	30 KVA
	During Operation phase (Connected load):	2813.76 KW
	During Operation phase (Demand load):	1382.69 kVA
	Transformer:	2 x 630 KVA & 1 X 315 KVA
	DG set as Power back-up during operation phase:	2 x 250 KVA & 1 X 160 KVA
	Fuel used:	160 KVA: Diesel. 28.41 Ltr/hr 250 KVA x 2 no. : Diesel. 42.57 Ltr/hr
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Timers and contactors will be used to switch on / off common are & external landscape and facade lighting..
2. LED fittings will be used for corridors ,Lobbies and
3. Energy efficient LED lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs.
4. All cables will be derated to avoid heating during use. This also indirectly reduces losses and improves reliability. To achieve the same we have considered current carrying capacity of all the cables laid through ground/air whichever is minimum.
5. 100 Ltrs Solar water is provided for each flat .
6. Solar PV panel system is proposed for Street lighting & Building common load.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED fittings + Solar PV + Solar hot water system.	16 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 55,72,500 /-
	O & M cost:	Rs. 5,04,750 /-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-
2	Land	Site Sanitation	Rs. 26,500 /-
3	Health & Safety	Site Safety	Rs. 88,000 /-
4	Environment management	Environmental Monitoring	Rs. 1,20,000 /-
5	Health & Safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	Rs. 45,54,000 /-	Rs. 12,35,000 /-
2	Rain Water Harvesting	10 pits	Rs. 20,00,000 /-	Rs. 1,00,000 /-
3	Solid Waste Management	OWC	Rs. 16,75,000 /-	Rs. 5,30,000 /-
4	Green Belt Development	299	Rs. 26,00,000 /-	Rs. 25,00,000 /-
5	Energy	Solar system	Rs. 55,72,500 /-	Rs. 5,04,750 /-
6	Swimming pool		Rs. 61,25,000 /-	Rs. 3,00,000 /-
7	Environmental Monitoring	Environment management	-	Rs. 1,20,000 /-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Existing 30 m wide DP road

Parking details:	**Number and area of basement:**	No
	Number and area of podia:	2 no's Area : 14877.41 sq. m
	Total Parking area:	26436.48 sq. m
	Area per car:	30 sq. m
	Area per car:	30 sq. m
	Number of 2-Wheelers as approved by competent authority:	Scooters : 743 , cycles :823
	Number of 4-Wheelers as approved by competent authority:	530
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	none within 10 km
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	Court case filled by MPCB, Pune for violation , the case no. is 3813/2014
	Other Relevant Informations	The project was presented in 4th EAC meeting dated 19.02.2018 under violation notification & the committee has granted TOR
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-05-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 29334 m2, FSI area of 35753.24 m2, Non FSI area of 52045.51 m2 and total BUA of 87798.75 m2.

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

The PP has applied as per the MoEF&CC Notification dated 14/03/2017 and 8/03/2018.

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

DECISION OF SEAC

During discussion following points emerged:

1. The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 2.35 Cr/-. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 1.875 Cr/- which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 2.35 Cr for the project completion period.

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

Specific Conditions by SEAC:

1) The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 2.35 Cr/-. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 1.875 Cr/- which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 2.35 Cr for the project completion period.

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for Proposed Residential & Commercial project "ANUTHAM" at S. No. 257A/16A + 16B/1A, S. No. 257A/17A, S. No. 257A/17B/1,2,3, Hadapsar, Pune by M/s. ACE CONSTRUCTIONS.

Is a Violation Case: No

1.Name of Project	Proposed Residential & Commercial project "ANUTHAM" at S. No. 257A/16A + 16B/1A, S. No. 257A/17A, S. No. 257A/17B/1,2,3, Hadapsar, Pune by M/s. ACE CONSTRUCTIONS.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Nilesh Popatlal Gada
4.Name of Consultant	J M EnviroNet Pvt Ltd (EIA-Coordinator-Sayali Jagtap)
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	S. No. 257A/16A + 16B/1A, S. No. 257A/17A, S. No. 257A/17B/1,2,3
9.Taluka	Haveli
10.Village	Hadapsar
Correspondence Name:	M/s. Ace Constructions.
Room Number:	201
Floor:	2nd Floor
Building Name:	Sai Siddhi
Road/Street Name:	Behind Congress Bhavan
Locality:	Shivajinagar
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation(PMC)
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: CC/2339/17 dated : 13.12.2017
	Approved Built-up Area: 29344.27
13.Note on the initiated work (If applicable)	Total constructed area on site: 10344.84 Sq.m which is below 20,000 sq. M therefore as per MoEF circular dated 21.04.2015 we have no violated EIA notification.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	5620.00 sq. m
16.Deductions	1205.19 sq. m
17.Net Plot area	4414.81 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 12701.81 sq. m
	b) Non FSI area (sq. m.): 16642.46 sq. m
	c) Total BUA area (sq. m.): 29344.27
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 12701.81 sq. m
	Approved Non FSI area (sq. m.): 16642.46 sq. m
	Date of Approval: 13-12-2017
19.Total ground coverage (m2)	919.42 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.82 %
21.Estimated cost of the project	313800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A+ Shops	Basement + Ground + 14 floors	45.30
2	Building B1	Basement + Ground + Stilt + Podium + 16 floors	55.35
3	Building B2	Basement + Ground + Stilt + Podium + 16 floors	55.35
4	Building C LIG	Basement + Ground + Stilt + Podium + 16 floors	55.35
5	Club house	Ground + 1	6.75

23.Number of tenants and shops	Residential : 240 Commercial : 10 (6 Shops + 4 Offices)
24.Number of expected residents / users	Residential: 1200 nos. Floating population : 95 no's
25.Tenant density per hectare	250/Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Width of right of way 60 m from nearest fire station at Amnora Fire station, Pune.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation(PMC)
	Fresh water (CMD):	113.97
	Recycled water - Flushing (CMD):	57.70
	Recycled water - Gardening (CMD):	04
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	175.67
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	84.3
Wet season:	**Source of water**	Pune Municipal Corporation(PMC)
	Fresh water (CMD):	113.97
	Recycled water - Flushing (CMD):	57.70
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	171.67
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	88.3
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-10 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	02 no's
	Size of recharge pits :	2 m x 2 m x 3 m
	Budgetary allocation (Capital cost) :	Rs. 5,00,000 /-
	Budgetary allocation (O & M cost) :	Rs.50,000 /-
	Details of UGT tanks if any :	Domestic +Raw UGT capacity : 216.55 KLD Flushing UGT capacity : 68.38 KLD Fire UGT capacity : 300 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	990.6 m3 per annum
	Size of SWD:	200 mm
Sewage and Waste water	**Sewage generation in KLD:**	149 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	164 KLD
	Location & area of the STP:	Area : 131.2 sq. m
	Budgetary allocation (Capital cost):	Rs. 37,00,000 /-
	Budgetary allocation (O & M cost):	Rs. 7,00,000 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Used within site premises
Waste generation in the operation Phase:	**Dry waste:**	262 kg/day
	Wet waste:	382 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	13.41 kg/day
	Others if any:	E-waste : 715 kg/year

Mode of Disposal of waste:	**Dry waste:**	To authorized vendor
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as a manure
	Others if any:	E-waste will be handed over To authorized vendor
Area requirement:	**Location(s):**	Shown in layout
	Area for the storage of waste & other material:	40.5 Sq. m (including machinery area)
	Area for machinery:	considered in above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 14,75,000 /-
	O & M cost:	Rs. 3,07,836 /-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	Open space required : 494.54 sq. m
	No of trees to be cut :	0
	Number of trees to be planted :	0
	List of proposed native trees :	76 no's
	Timeline for completion of plantation :	up to completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	FICUS ELASTICA	Rubber	4	DETOXIFIES AIR, REMOVER OF AIR POLLUTANTS
2	AZADIRACHTA INDICA	Neem	7	GOOD DROUGHT RESISTANT, GOOD AIR PURIFIEA AND HAVE MEDICINAL PROPERTIES.
3	ALBIZIA LEBBECK	Shirish	3	THE CAPACITY OF NTORGEN FIXING ,IS DROUGHT RESISTANT, A GOOD SOIL BINDER AND HAVE MEDICINAL PROPERTIES
4	ARTOCARPUS HETEROPHYLLUS	Phanas	3	EXCELLENT WIND BREAKER, HAVE MEDICINAL VALUE AND ATTRACTS BIRDS
5	ERTHYRINA INDICA	Pangara	3	HAVE THE CAPACITY OF INTROGEN FIXING AND ALSO TO REAIN WATER IN THE SOIL
6	CASSIA FISTULA	Bahava	3	ATTRACTS BUTTERFLYS BIRDS AND BEES FOR FLOWERING
7	LAGESTROMIA FOLSREGINEAE	Tamhan	5	DETOXIFIES AIR, REMOVER OF AIR POLLUTANTS
8	PONGAMIA PINNATA GLABRA	Karanj	3	AVE NITROGEN FIXINGCAPACITY AND MEDICIAL PROPERTIES, IS GOOD FOR ECOLOGICAL RESTORATION AND IS A HOST FOR BUTTERFLIES
9	MILLINGTONIA HORTENSIS	Indian cork tree	2	HAVE THE CAPACITY OF INTROGEN FIXING AND ALSO TO REAIN WATER IN THE SOIL
10	TERMINILIA CUNIATA	Arjun	3	HAVE MANY MEDICINAL PROPERTIES
11	BUTEA MONOSPERMA	Palas	3	ATTRACTS BUTTERFLIES, BIRDS AND BEES FOR FLOWERING AND HAVE MEDICIAL PROPERTIES
12	MICHELIA CHAMPACA	Sonchafa	2	ATTRACTS BUTTERFLIES, BIRDS AND BEES FOR FLOWERING AND HAVE MEDICIAL PROPERTIES
13	BAUHINIA RACEMOSA	Apta	3	GOOD DROUGHT RESISTANT GOOD AIR PURIFIEA AND HAVE MEDICINAL PROPERTIES.

14	PLUMERIA ALBA	Chapha	2	ARE GOOD FOR ORNAMENTAL PURPOSE
15	BAMBUSA VULGARIS	Golden Bamboo Verigated	2	ARE GOOD FOR ORNAMENTAL PURPOSE
16	PHYLLANTHUS ACIDUS	Amla Rai	3	ATTARACT A LOT OF SMALL AND BIG BIRDS AND HAVE MEDICINAL VALUE
17	MANGIFERA INDICA	Mango	2	ATTARACT A LOT OF SMALL AND BIG BIRDS
18	MUTINGIA CALABURA	Singapur Cherry	2	ATTARACT A LOT OF SMALL AND BIG BIRDS
19	MIMUSOPS ELENGI	Bakul	2	ATTARACT A LOT OF SMALL AND BIG BIRDS AND HAVE MEDICINAL VALUE
20	SARACA ASOKA	Sita Ashoka	2	GOOD DROUGHT RESISTANT GOOD AIR PURIFIEA AND HAVE MEDICINAL PROPERTIES. ATTRACT BIRDS
21	NYCTANTHES ARABORTRISTIS	Parijatak	2	ATTARACT A LOT OF SMALL AND BIG BIRDS AND HAVE MEDICINAL VALUE
22	FICUS CARICA	Fig	3	ATTARACT A LOT OF SMALL AND BIG BIRDS
23	MORUS NIGRA	Tuthee	2	ATTARACT A LOT OF SMALL AND BIG BIRDS
24	EUGENIA JAMBOLANA	Jambhul	2	ATTARACT A LOT OF SMALL AND BIG BIRDS
25	Royal Palm	Royal Palm	8	GOOD FOR ORNAMENTAL PURPOSE, MEDICINAL VALUE AND USED FOR AFORESTATION . PROVIDES SHADE
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	NERIUM OLEANDER	0.45	4.0
2	MURRAYA EXOTICA	0.45	4.0
3	FICUS BENJAMINA	0.30	3.6
4	RAPHIS PALIM	0.30	3.6
5	HIBISCUS ROSA SINENSIS	0.25	12.15
6	CATHARANTHUS ROSEA	0.45	6.6
7	HAMELIA PATENS	0.30	37.0
8	TABERNAEMONTANA CORONARIA	0.30	7.2

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	10 kW
	DG set as Power back-up during construction phase	45 KVA
	During Operation phase (Connected load):	952 KVA
	During Operation phase (Demand load):	857 KVA
	Transformer:	630 kVA & 315 kVA
	DG set as Power back-up during operation phase:	180 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Solar Hot water system
2. Solar PV

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy efficient Solar lighting for landscape & driveway+ common area lighting + Solar Hot water system + VFD's on lifts	16 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 21,70,000 /-
	O & M cost:	Rs. 62,500 /-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-
2	Land	Site Sanitation	Rs. 26,500 /-
3	Health & safety	Site Safety	Rs. 88,000 /-
4	Environment management	Environment Monitoring	Rs. 1,20,000 /-

5	Health & safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	Rs. 37,00,000 /-	Rs. 7,00,000 /-
2	Rain Water Harvesting	02 no's	Rs. 5,00,000 /-	Rs. 50,000 /-
3	Solid Waste Management	1 OWC	Rs. 14,75,000 /-	Rs. 3,07,836 /-
4	Green Belt Development	76 no's of trees	Rs. 6,67,629 /-	Rs. 1,20,000 /-
5	Energy details	DG set + Solar hot water +PV cells	Rs. 21,70,000 /-	Rs. 62,500 /-
6	Environment Monitoring	Environment management	-	Rs. 14,40,000 /-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project has direct access from the existing Pune- Solapur Highway

Parking details:	**Number and area of basement:**	1 Basement, Area: 1694.64 sq. m.
	Number and area of podia:	1 Podium, Area: 1694.64 sq. m.
	Total Parking area:	8469 sq. m
	Area per car:	30 sq. M (For stilt, ground, podium) 35 sq. M(for basement)
	Area per car:	30 sq. M (For stilt, ground, podium) 35 sq. M(for basement)
	Number of 2-Wheelers as approved by competent authority:	Scooters : 480 , cycles : 271
	Number of 4-Wheelers as approved by competent authority:	232 no's
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior EC for total plot area of 5620.00 m2, FSI area of 12701.81 m2, Non FSI area of 16642.46 m2 and total BUA of 29344.27 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 89th meeting of SEAC-3.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for Expansion of Proposed Residential & Commercial Project "Venkatesh Imperia" at S. No. 14/4(P), Punawale, Taluka - Mulshi, Pune by M/s. Raj Heramb Properties

Is a Violation Case: No

1.Name of Project	Expansion of Proposed Residential & Commercial Project "Venkatesh Imperia" at S. No. 14/4(P), Punawale, Taluka - Mulshi, Pune by M/s. Raj Heramb Properties
2.Type of institution	Private
3.Name of Project Proponent	Mr. Pravin Patil
4.Name of Consultant	M/s. J V Analytical services
5.Type of project	Residential & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. EC letter no. SEAC-III-2014/CR.119/TC-3 dated 3rd December , 2016
8.Location of the project	S. No. 14/4(P), Punawale, Taluka - Mulshi, Pune
9.Taluka	Mulshi
10.Village	Punawale
Correspondence Name:	Mr. Pravin Patil
Room Number:	Row House No.3
Floor:	-
Building Name:	Raj Vimal Terraces, plot No. 28,
Road/Street Name:	Ram Nagar Colony
Locality:	NDA road, Bavdhan
City:	Pune
11.Whether in Corporation / Municipal / other area	PCMC
12.IOD/IOA/Concession/Plan Approval Number	IOD received
	IOD/IOA/Concession/Plan Approval Number: BP/ENV/PUNAWALE/03/2018 dated 31.01.2019
	Approved Built-up Area: 28017.73
13.Note on the initiated work (If applicable)	Total Existing built up area : 23506.30 sq. m (FSI – 12407.16 Sq. m + Non FSI- 11099.14 Sq.m) as per earlier EC received.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	9820.81 m2
16.Deductions	1997.43 m2
17.Net Plot area	7823.38 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 13179.11 m2
	b) Non FSI area (sq. m.): 14848.62 m2
	c) Total BUA area (sq. m.): 28027.73
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 13179.11 sq. m
	Approved Non FSI area (sq. m.): 14838.62 sq. m
	Date of Approval: 31-01-2019
19.Total ground coverage (m2)	1491.77 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	(15.18 % of the Total Plot Area) (19.06% of the Net Plot Area)
21.Estimated cost of the project	700000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	Parking + 12 floors	38.55 m
2	Wing B	Parking + 12 floors	38.55 m
3	Wing C	Parking + 12 floors	38.55 m
4	Commercial	Ground + 4 floor	16.30 m
5	Club house	G +1 floor	-

23.Number of tenants and shops	Residential : 187 no's Commercial building : 948.32 sq. m (7 shops, 30 offices)
24.Number of expected residents / users	Residential : 935 no's Commercial floating population : 197
25.Tenant density per hectare	190 Tenant/hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	From existing 18 m DP Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 M
29.Existing structure (s) if any	As per earlier EC Bldg. A, B ,C, club house & 7 shops completed on site.
30.Details of the demolition with disposal (If applicable)	7 shops will be demolished.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pimpri Chinchwad Municipal Corporation
	Fresh water (CMD):	89.09
	Recycled water - Flushing (CMD):	47
	Recycled water - Gardening (CMD):	9.6
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	145.69
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	53.63
Wet season:	**Source of water**	Pimpri Chinchwad Municipal Corporation
	Fresh water (CMD):	89.09
	Recycled water - Flushing (CMD):	47
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	136.09
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	63.24
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 16.33 m. to 20.33 m. BGL. (18.33 m. Average) Rainy Season – 5.67 m. to 10.00 BGL. (7.84 m. Average) Winter Season – 11.00 m. to 15.17 m. BGL. (13.09 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	04 No.
	Size of recharge pits :	2.0 m. X 2.0 m. X 2.0 m. Depth with de-siltation pit of 0.9 m. Dia. 1.0 M. Deep
	Budgetary allocation (Capital cost) :	Rs. 6,00,000 /-
	Budgetary allocation (O & M cost) :	Rs.30,000 /- per year
	Details of UGT tanks if any :	Domestic UG tank Capacity : 184 m3/day Flushing UG tank Capacity : 80 m3/day Fire UG tank Capacity : 150 m3/day
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	4,104.68 m3/Year
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	122.48 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	125 KLD
	Location & area of the STP:	Area : 81.12 sq.mt
	Budgetary allocation (Capital cost):	Rs. 15,50,000 /-
	Budgetary allocation (O & M cost):	Rs. 8,74,296 /- per year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	50 kg/day
	Disposal of the construction waste debris:	Excavated earth material will be used for filling of plinth area & top soil for landscaping
Waste generation in the operation Phase:	**Dry waste:**	217 kg/day
	Wet waste:	300 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	11.33 kg/day (100% dry)
	Others if any:	E waste : 1.82 kg/day

Mode of Disposal of waste:	**Dry waste:**	To authorized vendor SWACH
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	E-waste will be given to authorized vendor SWACH
Area requirement:	**Location(s):**	Shown in plan
	Area for the storage of waste & other material:	60 sq. m
	Area for machinery:	Considered in above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10,00,000 /-
	O & M cost:	Rs. 2,35,713 /- per 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 :**	Mandatory RG required (10%) : 960.93 sq. m Total RG area provided on ground (10 %) : 960.93 sq. m Additional green area on ground : 405.07 sq. m
	No of trees to be cut :	0
	Number of trees to be planted :	133
	List of proposed native trees :	provided below
	Timeline for completion of plantation :	Up to completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Anthocephalus kadamba	Kadamb	15	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
2	Azardirachta indica	Neem	20	Medicinal value, To control soil erosion. To improve soil erosion
3	Cassia fistula	Bahawa	08	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
4	Dalbergia sissoo	Shisav	06	Medicinal value, Bird attracting species ,
5	Michelia champaca	Sonchafa	13	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
6	Syzygium cumini	jamun	06	Medicinal value, Edible fruit.
7	Mimosups elengii	Bakul	10	Fragrant flowers, Medicinal value, To control soil erosion.
8	Butea monosperma	palas	02	Medicinal value, Bird attracting species , To control soil erosion
9	Bahunia racemosa	Apta	28	Every part of the plant is medicinal ,Drought tolerant species.
10	Pongamia pinnata	karanj	25	Medicinal value, Drought tolerant species, To control soil erosion, Hardy plant.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30KW
	DG set as Power back-up during construction phase	40 KVA
	During Operation phase (Connected load):	1157 KW(1285 KVA)
	During Operation phase (Demand load):	567 KW (630 KVA)
	Transformer:	2 x 11 KV/315 KVA
	DG set as Power back-up during operation phase:	160 KVA & 82.5 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	YES

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED lamps + Common area lighting + Street lights + Solar hot water system	16.97 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.29,10,000/-
	O & M cost:	Rs.58,000/- per year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-

2	Land	Site Sanitation	Rs. 26,500 /-
3	Health & safety	Site Safety	Rs.88,000 /-
4	Environment management	Environmental Monitoring	Rs. 70,000 /-
5	Health & safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	STP	Rs. 15,50,000 /-	Rs. 8,74,296 /-
2	Rain Water Harvesting	04 no's of pits	Rs. 6,00,000/-	Rs. 30,000/-
3	Solid Waste Management	OWC	Rs. 10,00,000 /-	Rs. 2,35,713 /-
4	Green Belt Development	133 no's of plants	Rs.22,05,600 /-	Rs.3,53,000 /-
5	Energy details	LED lamps + Common area lighting + Street lights + Solar hot water system	Rs. 29,10,000 /-	Rs. 58,000 /-
6	Environmental Monitoring	EMP costing	-	Rs.8,90,000/-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Existing 18.00 m wide DP road

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	5718.60 m2
	Area per car:	30 sq. m
	Area per car:	30 sq. m
	Number of 2-Wheelers as approved by competent authority:	434 scooter & 394 bicycle
	Number of 4-Wheelers as approved by competent authority:	133
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	NA
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 9820.81 m2, FSI area of 13179.11 m2, Non FSI area of 14848.62 m2 and total BUA of 28027.73 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 82nd meeting of SEAC-3.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for Proposed Amendment in residential & commercial development

Is a Violation Case: No

1.Name of Project	"City Scape: Proposed residential & commercial development
2.Type of institution	Private
3.Name of Project Proponent	M/s Guardian Homes Pvt Ltd
4.Name of Consultant	Enviro Resources
5.Type of project	Housing & Commercial
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 previous environmental clearance letter no.SEAC- III-2014/CR-382/TC-3, dated 25th January 2016.
8.Location of the project	Sr No- 115/3/1,115/3/2 F.P No 542-E
9.Taluka	Haveli
10.Village	Parvati, Sinhgad Road
Correspondence Name:	Mr. C.K. Joshi
Room Number:	Office 101 & 102
Floor:	1st floor
Building Name:	Chintamani Pride Bldg., Near City Pride Multiplex,
Road/Street Name:	NA
Locality:	Kothrud
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Applied Building Layout sanction by PMC vide CC/2901/15 dated 11/12/2015. Revised Building plan sanction in process
	IOD/IOA/Concession/Plan Approval Number: Applied CC/2901/15
	Approved Built-up Area: 39332.69
13.Note on the initiated work (If applicable)	We have initiated work as per previous environmental clearance letter no.SEAC-III-2014/CR-382/TC-3, dated 25th January 2016
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	20,234.0 Sq Mt
16.Deductions	1642.70 Sq Mt
17.Net Plot area	18591.30 Sq Mt
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 39312.97
	b) Non FSI area (sq. m.): 53,871.43
	c) Total BUA area (sq. m.): 93184.40
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 39312.97
	Approved Non FSI area (sq. m.): 93193.55
	Date of Approval: 31-10-2019
19.Total ground coverage (m2)	7689.95
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	41.36
21.Estimated cost of the project	1560000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	L.GR.P.+1ST P.+ 2ND P.+3RD P.+19	69.85 m
2	B	L.GR.P.+1ST P.+ STILT.-1+STILT.-2+19	69.85 m
3	C	L.GR.P.+COMM.1ST + COMM.2ND+3P+19	69.85 m
4	D	L.GR.P.+COMM.1ST + COMM.2ND+3P+19	69.85 m
5	E	L.GR.P.+COMM.1ST + COMM.2ND+3P+19	69.85 m
6	F	L.GR.P.+1P+GR.+ STILT-1+STILT-2+18	67.55 m
7	Commercial (below C, D & E TYPE BUILDING	COMM. 1ST+ COMM. 2ND	8.25 m

23.Number of tenants and shops	Residential:410 Commercial: 26 SHOPS & Offices 109+6 Showroom
24.Number of expected residents / users	Residential:2158 as per plumbing consultant Commercial:1567
25.Tenant density per hectare	227/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 Erandwane & kothrud. Width of the road from the nearest fire station to the proposed building – 42m wideroad abutting to 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	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	233
	Recycled water - Flushing (CMD):	128
	Recycled water - Gardening (CMD):	20
	Swimming pool make up (Cum):	12.15
	Total Water Requirement (CMD) :	393
	Fire fighting - Underground water tank(CMD):	2 nos. of 300
	Fire fighting - Overhead water tank(CMD):	120 CMD
	Excess treated water	197
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	233
	Recycled water - Flushing (CMD):	128
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	12.15
	Total Water Requirement (CMD) :	373
	Fire fighting - Underground water tank(CMD):	2 NOS. OF 300
	Fire fighting - Overhead water tank(CMD):	120 CMD
	Excess treated water	217
Details of Swimming pool (If any)	Main Pool 15.55x6.5x1.5m and Baby pool 4x6.5x0.6	

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:**	15m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6 Nos.
	Size of recharge pits :	2.0x 2.7x 3.0 m
	Budgetary allocation (Capital cost) :	14.24 lac/Annum
	Budgetary allocation (O & M cost) :	0.8 lac/Annum
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	S to N
	Quantity of storm water:	0.43 Cum/sec
	Size of SWD:	450mm dia. Pipe
Sewage and Waste water	**Sewage generation in KLD:**	R-280 m3/day and C- 70 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	280 & 70 CMD
	Location & area of the STP:	AS PER LAYOUT
	Budgetary allocation (Capital cost):	106.35 lac (Including Civil)
	Budgetary allocation (O & M cost):	30.79 lac/Annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Cutting 2331 m3 and Filling 14028m3. Remaining shortfall to be filled with during construction debris & from others nearby
	Disposal of the construction waste debris:	Cutting 2331 m3 and Filling 14028 m3. Remaining shortfall to be filled with during construction debris
Waste generation in the operation Phase:	**Dry waste:**	645 Kg / Day
	Wet waste:	772 Kg / Day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	74.77 Kg/Day
	Others if any:	NOT ANY

Mode of Disposal of waste:	**Dry waste:**	Will be handover to SWACH authorized recycler
	Wet waste:	Wet waste will be treated in OWC & manure will be used for landscaping & gardening
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure for landscape development
	Others if any:	Not any
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	For Residential - 67.5 m2 & Comm. – 32 M2
	Area for machinery:	as mentioned above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	R -20.75 L & Comm- 11.75 L
	O & M cost:	R -4.3 L/Annum & Comm- 2.56L/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	180	hsd	1	6.5	5.0x2.0 meter	450 Deg.C +/- 10Deg.C
2	125	hsd	1	6.0	4.0x2.0 meter	450 Deg.C +/- 10Deg.C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	3500 Liters/M	3500 Liters/M

41.Source of Fuel	Nearby pumps
42.Mode of Transportation of fuel to site	By road

43.Green Belt Development	**Total RG area :**	1867.94
	No of trees to be cut :	98 Nos as per garden NOC
	Number of trees to be planted :	526
	List of proposed native trees :	Listed below
	Timeline for completion of plantation :	At the time of Completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Manikara zapota	Chikoo	31	Tropical fruit tree & bird attracting tree
2	Michelia champaca	Champa	31	Evergreen timber plant, ornamental
3	Mimusopes elengi	Bakul	31	Evergreen tree, timber yielding and medicinal plant
4	Ficus benjamina	Weeping fig	31	Evergreen & bird attracting tree
5	Cassia fistula	Golden shower	31	Drought tolerant, ornamental & medicinal plant
6	Butea monosperma	Flame tree	31	Used in pesticide & dye preparation,
7	Cassia grandis	Pink shower	31	Drought tolerant, ornamental & medicinal plant
8	Saraca indica	Sita ashok	31	Evergreen medicinal plant
9	Roystonea regia	Royal palm	31	Nitrogen fixer, ornamental plant
10	Syzygium cumini	Jambhul	31	Fruit tree & bird attracting
11	Neolamarkia cadamba	Kadamba	31	Tropical fruit tree & bird attracting tree
12	Mangifera indica	Mango	31	Evergreen & bird attracting tree
13	Pongamia pinnata	Karanj	31	Karanj is an important ayurvedic medicine
14	Phyllanthus officinalis	Awala	31	Evergreen medicinal and fruit plant
15	Psidium guajava	Peru	31	Fruit tree
16	Azadirachta Indica	Neem	31	Traditional medicinal Plant
17	Albizia lebbeck	Shirish	31	Evergreen timber plant, ornamental
18	Manikara zapota	Chikoo	31	Tropical fruit tree & bird attracting tree
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2

1	Not applicable	Not applicable	Not applicable

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30KVA
	DG set as Power back-up during construction phase	62.5KVA
	During Operation phase (Connected load):	3666 KW
	During Operation phase (Demand load):	1557 KW
	Transformer:	3X630 KVA
	DG set as Power back-up during operation phase:	180 KVA 125KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

• Solar water heating systems will be done for bathrooms.
• Solar lights will be provided for common amenities like Street lighting & Garden lighting.
• CFL & LED based lighting will be done in the common areas, landscape areas, signage's, entry gates and boundary compound walls etc.
• Auto Timer switches will be provided for Street lights, Garden lights, Parking & staircase Lights & other common area Lights, for saving electrical energy.
• Water level controllers with timers will be used for Water pumps.
• To create awareness to end consumer or flat owner, for using energy efficient light fittings like CFL, T5 Lamps & LED lights

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Annual Savings System in % With Solar PV Power, Hot Water System & LED Lighting	18.38%
2	Total Annual Savings in % With Solar Hot Water System	15.55%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	Not applicable	280 & 70 CMD MBBR
MSW	Not applicable	PROVIDED 2 nos. of STP
DG SET	Not applicable	stack will be provided with appropriate stack

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.55.20 LACS
	O & M cost:	Rs 1.78 Lac / 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	Environmental monitoring	PM10, PM2.5, SO2, NOx, CO, Equivalent noise level, Analysis of water for physical, chemical, biological parameters	2.54
2	Air Environment	Water For Dust Suppression Air & Noise monitoring	0.8
3	Water Environment	Tanker water for construction Water monitoring	1.68
4	Land Environment	Site Sanitation Gardening	3.0
5	Socio- Economic Environment	Disinfection- Pest Control First Aid Facilities Health Check Up Crèche for children Personal protective equipment	2.03

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water, Sewage from STP, As per EP act, Manure	outside life	18.83
2	Water	RWH	14.24	0.8
3	Water	STP	106.35	30.79
4	Energy	Solar PV Cells	55.20	1.78
5	Land Environment	Gardening	30.92	1.80
6	Solid waste	Solid waste management	28.35	13.59

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	one
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	O3
	Total Parking area:	28206.0
	Area per car:	12.50 Sq. m.
	Area per car:	12.50 Sq. m.
	Number of 2-Wheelers as approved by competent authority:	1426
	Number of 4-Wheelers as approved by competent authority:	636
	Public Transport:	Bus
	Width of all Internal roads (m):	9m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a) Building and Construction projects
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 20,234.0 m2, FSI area of 39312.97 m2, Non FSI area of 53,871.43 m2 and total BUA of 93184.40 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 88th meeting of SEAC-3.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for Environment Clearance for "Grand Stand" Proposed Residential & Commercial Building Project at S.NO. 69/5A/1/1 + 69/5A/2/1 at Kothrud Taluka Haveli District Pune By M/s. Sigma One Ventures

Is a Violation Case: No

1.Name of Project	"Grand Stand" Proposed Residential & Commercial Building Project at S.NO. 69/5A/1/1 + 69/5A/2/1 at Kothrud Taluka Haveli District Pune By M/s. Sigma One Ventures
2.Type of institution	Private
3.Name of Project Proponent	Mr. Shailesh Agarwal. M/s. Sigma One Ventures
4.Name of Consultant	VKe environmental LLP
5.Type of project	Residential and commercial project.
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.NO. 69/5A/1/1 + 69/5A/2/1 at Kothrud Taluka Haveli District Pune
9.Taluka	Haveli
10.Village	Kothrud
Correspondence Name:	Mr. Shailesh Agarwal. M/s. Sigma One Ventures
Room Number:	T4-T5
Floor:	3rd floor
Building Name:	Metropole Building
Road/Street Name:	Bund Garden Road
Locality:	Next to Inox Multiplex
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: In Process
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	In Process
15.Total Plot Area (sq. m.)	13480 sq mt
16.Deductions	1,637.85 sq mt + 3592.59 sq mt
17.Net Plot area	7011.19 sq mt
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 12878.27
	b) Non FSI area (sq. m.): 15455.21
	c) Total BUA area (sq. m.): 28333
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** In process
	Approved Non FSI area (sq. m.): In Process
	Date of Approval: 01-09-2018
19.Total ground coverage (m2)	1650.90 sq. m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.54%
21.Estimated cost of the project	325000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	B+P+12	37.50
2	Building B	B+P+12	37.50
3	Building C	B+P+13	40.65
4	Building C	B+P+13	40.65

23.Number of tenants and shops	Residential: 121 Flats Shops: 9 Offices: 5
24.Number of expected residents / users	Residential: 605, Commercial: 298
25.Tenant density per hectare	862.9 To net plot area.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Building A and B are exists on site.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	60
	Recycled water - Flushing (CMD):	35
	Recycled water - Gardening (CMD):	7
	Swimming pool make up (Cum):	0.5
	Total Water Requirement (CMD) :	102.5
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	43
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	60
	Recycled water - Flushing (CMD):	35
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0.5
	Total Water Requirement (CMD) :	95.5
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	50
Details of Swimming pool (If any)	Total water Requirement : 15 m3/month Water requirement for make up: 0.5m3/day Size of Pool – 42.191 Sq. Mtr Area & Perimeter 29.463 Mtr Volume Of Pool – 51 m3 PARAMETERS TO BE MONITORED Ph- 7.0 TO 7.6 Chlorine content -0.8 to 1 PPM Residual Chlorine In Pool Frequency Of Monitoring – Everyday Capital Cost –Rs 20,45,079 Lakhs O & M cost – 10000 to 12000 Rs	

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:**	Summer Season – 20.00 m. to 26.67 m. BGL. (23.34 M. Average) Rainy Season – 5.00 m. to 14.00 BGL. (9.50 M. Average) Winter Season – 12.50 m. to 20.34 m. BGL. (16.42 M. Average)
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	4 Nos
	Size of recharge pits :	2.00 m. X 2.00 m. X 1.50 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. Depth.
	Budgetary allocation (Capital cost) :	5,00,000/-
	Budgetary allocation (O & M cost) :	30,000/-
	Details of UGT tanks if any :	Total UGT capacity including fire, utility, raw and drinking water is 321
35.Storm water drainage	**Natural water drainage pattern:**	All the storm water collected will be channelized through the storm water network and rainwater harvesting system.
	Quantity of storm water:	3,850.15 m3 / Year i.e. 77.00 m3 / Day, Considering 849.30 mm. annual rain fall in 50 days averagely.
	Size of SWD:	450- 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	Waste water 85.5 kld
	STP technology:	MBBR
	Capacity of STP (CMD):	100 KLD
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	35,92,000/-
	Budgetary allocation (O & M cost):	7,34,000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	From labors 10kg/day.
	Disposal of the construction waste debris:	The construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling.
Waste generation in the operation Phase:	**Dry waste:**	165 kg
	Wet waste:	211 kg
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	20 kg/day
	Others if any:	E-waste- 1.63 kg/day

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorized recycler
	Wet waste:	Will be treated in organic Waster Converter (OWC)
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Dried sludge form STP will be used in manure.
	Others if any:	E waste will be given to authorized recycler
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	Total area 38.28 sqm
	Area for machinery:	Total area 38.28 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	13,88,000/-
	O & M cost:	2,61,000/-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	825.36 Sq Mt.
	No of trees to be cut :	0
	Number of trees to be planted :	175
	List of proposed native trees :	Please refer below list.
	Timeline for completion of plantation :	Till operation phase.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygium cumini	Jambhul Tree	20	A large size tree with dense foliage provides shade along roads; wood is water resistant and attracts a variety of birds.
2	Millingtonia hortensis	Indian cork tree	15	A columnar, evergreen tree, grows well in both dry and moist regions.
3	Lagerstromia flos-regineae	Tamhan	15	Large tree good for stopping soil erosion along canal banks.
4	Azadirachta indica	Neem	18	A medium to large size hardy tree which stand in drought conditions. Air Purifying quality Attain a much larger size in dry regions.
5	Pongamia pinnata	Karanj	10	Large tree good for stopping soil erosion along canal banks
6	Cassia fistula	Indian laburnum	14	Small deciduous tree. Excellent bright flowering tree for arid regions.
7	Ficus benjamina	Weeping Fig	13	Medium sized evergreen tree with elegant appearance and moderate water requirement.
8	Plumeria alba	Champa	10	Ornamental flowering tree
9	Michelia champaca	Sonchapha	15	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant.
10	Polyathia longifolia	Ashoka	20	Large evergreen tree Effective in decreasing noise pollution.
11	Mangifera indica	Mango	10	Large evergreen and fruit bearing tree
12	Albizia lebeck	Shirish	15	Shady, large tree, ball shaped flowers
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited
	During Construction Phase: (Demand Load)	22 KW
	DG set as Power back-up during construction phase	200 KVA
	During Operation phase (Connected load):	1600 KW
	During Operation phase (Demand load):	784 KVA
	Transformer:	1 nos of 630 KVA & 1 nos of 315 KVA
	DG set as Power back-up during operation phase:	1 nos of 200 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Using solar hot water 125 liter/flat/day
Solar PV panels + LED light fittings.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV panels + LED light fittings. Total savings	24.63%

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:**	33,16,500/-
	O & M cost:	2,77,200/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion Control- dust suppression measures, barricading and top soil preservation	14,78,625/-
2	Land	Labor Camp toilet & sanitation	2,40,000/-
3	Health and safety	Labor Safety Equipment's and training	2,00,000/-

4	Environment	Environmental Monitoring	1,85,500/-
5	Health and safety	Disinfection and health checkups.	28,000/-
6	Environmental Management	Environmental Monitoring Cell	1,70,000/-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	35,92,000/-	7,34,000/-
2	Solid Waste Management	1 OWC	13,88,000/-	2,61,000/-
3	Landscaping	Development and maintenance of green area	2,07,500/-	16,600/-
4	Rain water harvesting	4 pits	5,00,000/-	20,000/-
5	Environmental Monitoring	Air, water, noise, soil, waste water, OWC manure	-	1,85,500/-
6	Renewable Energy	Solar Hot water System	33,16,500/-	2,77,200/-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Proposed site is located in Kothrud. The road network within the site has been designed to carter to the traffic loads of the project. Internal driveways are 6m wide. Existing access road is 12 m wide.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	3917 sqm
	Area per car:	12.5 sqm
	Area per car:	12.5 sqm
	Number of 2-Wheelers as approved by competent authority:	504
	Number of 4-Wheelers as approved by competent authority:	192
	Public Transport:	Nil
	Width of all Internal roads (m):	6 mts
	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 category
	Court cases pending if any	no court case pending
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 13480 m2, FSI area of 12878.27 m2, Non FSI area of 15455.21 m2 and total BUA of 28333 m2.

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

DECISION OF SEAC

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

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for Proposed Building Construction Project by M/s Chandrarang Developer & Builders Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Proposed Building Construction Project by M/s Chandrarang Developer & Builders Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vijay Jagtap
4.Name of Consultant	S G M Enviro (I) Pvt. Ltd.
5.Type of project	Residential & Commercial Development Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	s.no. , 253/2, PLOT - B, Wakad, Mulshi, Pune.
9.Taluka	Mulshi
10.Village	Wakad
Correspondence Name:	Vijay Pandurang Jagtap
Room Number:	-
Floor:	-
Building Name:	Jagtap Complex
Road/Street Name:	Shivaji Chowk
Locality:	Near PCMC School, Pimple Gurav
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number: In process
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD is in process
15.Total Plot Area (sq. m.)	8,000
16.Deductions	332.94
17.Net Plot area	7667.06
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 15706.65
	b) Non FSI area (sq. m.): 16066.56
	c) Total BUA area (sq. m.): 31773.21
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** IOD is in process
	Approved Non FSI area (sq. m.): IOD is in process
	Date of Approval: 04-02-2019
19.Total ground coverage (m2)	5303.55
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20%
21.Estimated cost of the project	850400000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A- Commercial + Residential	GP +Stilt floor + 11	39.00
2	Building B- Residential	GP+PP+11	39.00
3	Building C- Residential	GP+PP+11	39.00
4	Building D- MHADA (Upto 5th floor)+ Residential	GP+PP+11	39.00
5	Building E - Residential	GP+PP+11	39.00
6	Building F- Residential	GP+PP+11	39.00
7	Club House	G+1	9.00

23.Number of tenants and shops	313 flats (Residential- 289, MHADA- 24), 2 Shops
24.Number of expected residents / users	Residential users: 1565, Commercial users: 55
25.Tenant density per hectare	355
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Proposed Residential & Commercial development Project	Not applicable	Not applicable	Not applicable

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	142.00
	Recycled water - Flushing (CMD):	72.00
	Recycled water - Gardening (CMD):	8.5
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	222.5
	Fire fighting - Underground water tank(CMD):	300 CMD
	Fire fighting - Overhead water tank(CMD):	20 CMD each building
	Excess treated water	97.00
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	142.00
	Recycled water - Flushing (CMD):	72.00
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	214.00
	Fire fighting - Underground water tank(CMD):	300 CMD
	Fire fighting - Overhead water tank(CMD):	20 CMD each building
	Excess treated water	102.00
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	214	214	Not applicable	20.23	20.23	Not applicable	193.77	193.77
Gardening	Not applicable	8.5	8.5	Not applicable	8.5	8.5	Not applicable	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 16.33 m. to 20.33 m. BGL. (18.33 M. BGL Average) Rainy Season – 6.33 m. to 11.00 BGL. (8.67 M. BGL Average) Winter Season – 11.33 m. to 15.67 m. BGL. (13.50 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	Total 7 No., 4 Nos. with recharge bores & 3 No. of Soak Pits.
	Size of recharge pits :	4 No. of 2.50 m. X 2.50 m. X 1.50 m. Recharge bores & 3 No. of 1.0 m. X 1.00 m. X 1.00 m. Soak Pits.
	Budgetary allocation (Capital cost) :	5.30 Lakh
	Budgetary allocation (O & M cost) :	0.50 Lakh
	Details of UGT tanks if any :	Drinking=38 CMD Domestic=178 CMD Fire=300 CMD Flushing=114 CMD
35.Storm water drainage	**Natural water drainage pattern:**	Slope to the West Side
	Quantity of storm water:	92.59 m3 / Day
	Size of SWD:	450MM Pipe
Sewage and Waste water	**Sewage generation in KLD:**	193.77 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	195 CMD
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	60 Lakh
	Budgetary allocation (O & M cost):	10 Lakh/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	0.4 to 0.6 MT/day
	Disposal of the construction waste debris:	This material shall be used for back filling and leveling of the plot.
Waste generation in the operation Phase:	**Dry waste:**	317 kg/day
	Wet waste:	479 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	10 Kg/day
	Others if any:	E-waste: Negligible

Mode of Disposal of waste:	**Dry waste:**	To Authorized vendor of PCMC
	Wet waste:	Organic Waste Converter of 500 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP sludge will be used as manure.
	Others if any:	NA
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	36 Sq.m.
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 Lakh
	O & M cost:	3 Lakh

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set 1 of 160 KVA	Diesel- 30 Lit/hr	1	5.22	-	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Not applicable	30 Lit/hr	30 Lit/hr

41.Source of Fuel	Local vendor
42.Mode of Transportation of fuel to site	By road

43.Green Belt Development	**Total RG area :**	766.00
	No of trees to be cut :	NA
	Number of trees to be planted :	120 No.s
	List of proposed native trees :	Given below
	Timeline for completion of plantation :	within a year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bombaxceiba	Cotton tree	6	Shady tree, Small white fragrant flower
2	Azadirachta Indica	Neem	6	Good Medicinal use
3	Mangifera Indica	Mango	9	Tall evergreen tree with fruit bearing
4	Areca catechu	Palm	6	Tall evergreen tree with fruit bearing
5	Pongamiapinnata	India beech	10	Good Medicinal use
6	Artocarpus heterophyllus	Jackfruit	10	Tall evergreen tree with fruit bearing
7	AlbiziaLebbeck	Shirish	6	Fragrant flowers or leaves , Attract birds/ butterflies/ bees drought tolerant
8	Saraca Indica	Sita Ashok	8	Fragrant flowers or leaves, attract birds/ butterflies/ bees, Deep-green, Shiny foliage
9	Butea Monosperma	Palas	6	Fragrant flowers or leaves, Covering the entire crown plant for pooja
10	Lagerstromiaflos-reginae	Jarul	6	Creates shade, attracts birds/ butterflies/ bees, Good for screening
11	Syzygiumcumini	Jamun	6	Tall evergreen tree with fruit bearing
12	Bauhinia purpuria	Raktakanchan	6	Fragrant flowers or leaves, plant for pooja, evergreen tree
13	Khaya Grandis	Khaya	6	Evergreen tree
14	Cassia Fistula	Golden Shower	6	Auspicious attract birds/ butterflies/ bees/ hanging or weeping growth
15	Kailashpati couroupita	Kailashpati	7	Evergreen tree with fruit bearing
16	Pulmeria alba	Chapha	10	Evergreen tree with fruit bearing
17	Mimusops Elengi	Bakul	6	Shady tree, Small white fragrant flower
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	40 KVA
	During Operation phase (Connected load):	1245 KW
	During Operation phase (Demand load):	564 KW
	Transformer:	630 KVA – 1.NO.
	DG set as Power back-up during operation phase:	160 KVA – 1.NO.
	Fuel used:	Diesel for DG set of 160 KVA – 30 lit./hr @ 75% Loading
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Measures to reduce energy consumption :

Generally we have proposed high efficiency transformer, motors etc. to reduce losses.

Electronic Ballasts and Energy efficient lamp source either triposphere or LED are proposed for common area & general lighting with automatic time based control to save power by switching ON & OFF the lights at appropriate time. The estimated saving in common lighting consumption is up to 20 % due to adopting above measures.

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	38 Lakh
	O & M cost:	0.75 Lakh/Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Drinking water	01	0.10
2	Sanitation	12.5	0.75
3	Health check up	01	0.25
4	Labour Camp Management	03	0.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	-	60	10
2	RWH System	-	5.30	0.50
3	Solid Waste Management -OWC etc.	-	15	3.0
4	Energy conservation	-	38	0.75
5	Green belt development, Landscaping	-	14.8	1.5
6	Environmental Monitoring	-	-	3

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	5289.42 Sq.m
	Total Parking area:	Ground covered parking area = 5312.16 Sq.m, Podium Parking slab area= 5170.72 Sq.m., Net provided parking area= 10482.88 Sq.m
	Area per car:	30 Sq.m.
	Area per car:	30 Sq.m.
	Number of 2-Wheelers as approved by competent authority:	638
	Number of 4-Wheelers as approved by competent authority:	159
	Public Transport:	Buses, Trains, Auto Rickshaw etc.
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a) B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 8,000 m2, FSI area of 15706.65 m2, Non FSI area of 16066.56 m2 and total BUA of 31773.21 m2.

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

DECISION OF SEAC

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

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for proposed residential project "Puraniks Abitante II" on S. No. 233/1, 233/2, 233/3, 233/4, 233/5, 233/6, 233/7, 235/1, 235/2/A, 235/2/B & 244/2 at Bavdhan (BK), Tal- Mulshi, Dist. Pune by PURANIK BUILDCON PVT. LTD.

Is a Violation Case: No

1.Name of Project	PURANIK ABITANTE PHASE II
2.Type of institution	Private
3.Name of Project Proponent	Shailesh G. Puranik, PURANIK BUILDCON PVT. LTD.
4.Name of Consultant	Dr. D. A. Patil, MAHABAL ENVIRO ENGG. PVT. LTD.
5.Type of project	Residential project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 233/1, 233/2, 233/3, 233/4, 233/5, 233/6, 233/7, 235/1, 235/2/A, 235/2/B & 244/2 at-Bavdhan (BK), Tal- Mulshi, Dist. Pune, Maharashtra
9.Taluka	Mulshi
10.Village	Bavdhan (BK)
Correspondence Name:	Smt. Amita Ambekar
Room Number:	-
Floor:	-
Building Name:	Puraniks One, Kanchan Pushp, Near Suraj Water Park,
Road/Street Name:	Ghodbunder Road, Thane
Locality:	Kavesar
City:	Thane (W) 400607
11.Whether in Corporation / Municipal / other area	Pune Metropolitan Region Development Authority (PMRDA)
12.IOD/IOA/Concession/Plan Approval Number	Plan is approved from PMRDA vide No. BMU/ C.R. No. 1521/18-19 Village-Bavdhan (BK) S. No./G. No./CTS No. 233/1 & others dated 28/02/2019
	IOD/IOA/Concession/Plan Approval Number: PMRDA vide No. BMU/ C.R. No. 1521/18-19 Village-Bavdhan (BK) S. No./G. No./CTS No. 233/1 & others dated 28/02/2019
	Approved Built-up Area: 240063.71
13.Note on the initiated work (If applicable)	No work started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Plan is approved from PMRDA vide No. BMU/ C.R. No. 1521/18-19 Village-Bavdhan (BK) S. No./G. No./CTS No. 233/1 & others dated 28/02/2019
15.Total Plot Area (sq. m.)	1,25,497.00 m2
16.Deductions	55091.68 m2
17.Net Plot area	70,405.32 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,38,394.47 m2
	b) Non FSI area (sq. m.): 1,01,669.24 m2
	c) Total BUA area (sq. m.): 234539.86
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 1,38,394.47 m2
	Approved Non FSI area (sq. m.): 1,01,669.24 m2
	Date of Approval: 28-02-2019
19.Total ground coverage (m2)	18970.89 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	15.12 %
21.Estimated cost of the project	7311300000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	TYPE A	3P+20	69.05 m
2	TYPE B	3P+20	69.05 m
3	TYPE C	5P+20	69.05 m
4	TYPE D	5P+20	69.05 m
5	TYPE E	5P+20	69.05 m
6	TYPE F	5P+20	69.05 m
7	TYPE G	5P+20	69.05 m
8	TYPE H	P+22	68.25 m
9	TYPE I	P+22	68.25 m
10	TYPE J	P+22	68.25 m
11	TYPE K	3P+20	69.05 m
12	TYPE L	P+22	68.25 m
13	TYPE M	P+22	68.25 m

23.Number of tenants and shops	Flats: 2,050 Nos.
24.Number of expected residents / users	Population: 9,934 Nos.
25.Tenant density per hectare	291 / Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m wide existing road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Vacant plot
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**	Bavdhan Gram Panchayat
	Fresh water (CMD):	898 KLD
	Recycled water - Flushing (CMD):	449 KLD
	Recycled water - Gardening (CMD):	41 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1,388 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	754 KLD
Wet season:	**Source of water**	Bavdhan Gram Panchayat
	Fresh water (CMD):	898 KLD
	Recycled water - Flushing (CMD):	449 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1,347 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	795 KLD
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre-monsoon – 8 m b.g.l. & Post-monsoon – 6 m b.g.l.
	Size and no of RWH tank(s) and Quantity:	3 RWH tank with total capacity: 304 m3
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	8 Nos.
	Size of recharge pits :	1.5m X 1.5m X 3.3m
	Budgetary allocation (Capital cost) :	Rs. 8 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.5 Lakh/yr
	Details of UGT tanks if any :	Underground
35.Storm water drainage	**Natural water drainage pattern:**	South West to North East
	Quantity of storm water:	5,388.81 m3/hr
	Size of SWD:	300 mm x 400 mm
Sewage and Waste water	**Sewage generation in KLD:**	1,257 KLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	4 STP's of total 1,280 KLD capacity
	Location & area of the STP:	Ground Floor , Total Area provided: 765 m2
	Budgetary allocation (Capital cost):	Rs. 338 Lakh
	Budgetary allocation (O & M cost):	Rs.46 Lakh/y
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris : 10,135 m3
	Disposal of the construction waste debris:	The construction debris will be utilized at site for leveling purposes
Waste generation in the operation Phase:	**Dry waste:**	1,987 kg/d
	Wet waste:	2,980 kg/d
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	13 m3/day
	Others if any:	Household E-Waste Generation

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be disposed off to authorized recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting unit and will be used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	The E-waste shall be handed over to e-waste management vendor authorized by MPCB (if any).
Area requirement:	**Location(s):**	Ground floor
	Area for the storage of waste & other material:	250 m2
	Area for machinery:	105 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 120 Lakh
	O & M cost:	Rs. 48 Lakh/y

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable
41.Source of Fuel	Not applicable			

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	RG area required: 8,282.98 m2 & RG area provided: 8,282.98 m2
	No of trees to be cut :	Trees on site: 45 Nos., Trees to be cut: 3
	Number of trees to be planted :	New Trees to be planted: 894 Nos.
	List of proposed native trees :	As below
	Timeline for completion of plantation :	4-5 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Alstonia scholaris	Satvin	36	Shady, large evergreen tree, white fragrant flowers
2	Areca Catechu	Indian nut	125	Shady palm Tree
3	Azadirachta Indica	Neem	14	Hardy evergreen tree, has medicinal properties
4	Bambusa Vulgaris	Bamboo	33	Species for erosion control
5	Bauhinia Purpurea	Orchid	40	Flowering plant.
6	Ziziphus mauritiana	Bori	15	Tropical fruit tree species
7	Cassia fistula	Bahava	49	Medium sized deciduous tree, Beautiful yellow flowers and Butterfly host plant
8	Cocus Nucifera	Coconut	75	A fruit bearing tree
9	Delonix Regia	Gulmohar	50	Species of flowering plant
10	Erythrina indica	Pangara	9	Medium sized deciduous tree. Bright scarlet flowers.
11	Ficus Benjamina	Weeping fig	20	A very large and stately tree for parks and other urban situations
12	Jacarnda Mimosifolia	Indigo	36	Flowering plant.
13	Largestromea Speciosa	Tamhan	39	A fruit bearing tree
14	Mangifera Indica	Mango	8	An evergreen fruit bearing tree
15	Michelia Champaka	Champak	70	Flowering plant.
16	Millingtonia Hortensis	Jasmine	28	Flowering plant.
17	Peltophorum	Copper pod	13	Flowering plant.
18	Plumeria Alba	Frangipani	20	Flowering plant.
19	Plumeria Rubra	Red jasmine	10	Flowering plant.
20	Polyalthia longifolia	False Ashoka	95	Effective in alleviating noise pollution
21	Pongamia pinnata	Karanj	31	Shady tree
22	Syzygium Cumini	Jaamun Tree	33	Fruit tree attracting birds
23	Terminalia catappa	Almond	19	Fruits with edible almonds
24	Terminalia Mantelay	Madagascarf Almond	26	Deciduous or evergreen shady tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	78.25 kW
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	14.76 MW
	During Operation phase (Demand load):	6.13 MW
	Transformer:	8 X 1000 kVA and 1 X 630 kVA
	DG set as Power back-up during operation phase:	2 x 320 kVA , 2 x 250 kVA and 1 x 450 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	YES

48.Energy saving by non-conventional method:

Solar Water heating system for residential buildings
Solar PV panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving	26 %

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. 160 lakh
	O & M cost:	Rs. 1.5 Lakh/yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	10

2	Site sanitation (Toilets)	Toilets, STP etc.	8
3	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time	6
4	Potable Water Supply to Labour Camp	-	10
5	Health check-up & first aid	-	2.5
6	Safety Personal Protective Equipment	Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.	18
7	Traffic Management	-	4
8	Safety nets	-	12
9	Solid Waste Management & Site maintenance activity	-	4.5
10	Safety - Training to Workers (Twice in Year), Safety Officer	-	8

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary treatment)	Continuous O & M Environment Monitoring: Monthly, STP outlet water quality for pH, BOD, COD, SS, FC, Nitrate, Phosphate and O&G	338	46
2	Solar System	Weekly	160	1.5
3	Rain Water Harvesting	During rainy season (cleaning)	8	0.5
4	Solid waste Composting plant	Continuous O & M	120	48
5	Landscape development	Daily	85	8
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	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:	18 m wide road
Parking details:	**Number and area of basement:**	Not proposed
	Number and area of podia:	Podium area: 69,150.26 m2 (1 Podium to Type H, I, J, L & M Bldgs., 3 Podiums to Type A, B & K Bldgs. and 5 Podiums to C, D, E, F, & G Bldgs.)
	Total Parking area:	19,498.80 m2
	Area per car:	12.5 m2 (Car) , 2.0 m2 (Scooter), 0.70 m2 (Cycle)
	Area per car:	12.5 m2 (Car) , 2.0 m2 (Scooter), 0.70 m2 (Cycle)
	Number of 2-Wheelers as approved by competent authority:	Req: 3,194 Nos. and provided: 3,194 Nos.
	Number of 4-Wheelers as approved by competent authority:	Req: 870 Nos. and provided: 870 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6 m and 9 m wide driveways
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	No court orders are pending against the project.
	Other Relevant Informations	-

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 1,25,497 m2, FSI area of 1,38,394.47 m2, Non FSI area of 1,01,669.24 m2 and total BUA of 234539.86 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. In CER, (i) PP has proposed solar street light costing 3.65 Cr. PP to submit details of the same i.e. number and locations along with plan. (ii) PP has proposed avenue plantation worth 3.65 Cr. Average cost per tree is 40000 Rs., which is very high. The cost should be realistic. PP to submit details viz. number and location. (iii) PP to incorporate electric crematorium in CER plan.

2. PP to submit detailed disaster management plan incorporating disaster management committee during operation phase and list of hospitals.

3. PP to revise traffic impact assessment studies stating all assumptions made for projections of traffic on the approach road for 5, 10 and 15 years. The width of approach road and capacity calculations be indicated. PP to submit details of V/C ratio calculations.

4. Fire tender drive ways shall be continuous covering entire development and made reachable to all buildings on all side.

5. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per car as per norms.

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

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

8. PP to submit details of RWH pits separately for recharge of rain water from terrace and surface.

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

10. PP to submit UGT sections.

11. PP to obtain and submit following NOC's: (a) CFO NOC for "A" Building, (b) Water supply with quantity, (c) Drainage NOC. (d) solid waste / e-waste management. (e) Aviation NOC. (f) Garden NOC.

12. PP to submit indemnity bond indemnifying Environment Department, GoM from any legal consequences.

13. PP to submit RG plan with calculations. PP to submit survival report of existing trees along with undertaking for retaining existing 27 trees and transplantation of 15 trees. PP to submit plantation plan incorporating local native fruit bearing trees.

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

Specific Conditions by SEAC:

1) .

FINAL RECOMMENDATION

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

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for Government Medical College & Hospital Chandrapur, Construction of 100 Intake Medical college and 672 Bedded Hospital

Is a Violation Case: No

1.Name of Project	Government Medical College & Hospital Chandrapur
2.Type of institution	Government
3.Name of Project Proponent	Dr.S.S.More
4.Name of Consultant	SV Enviro Labs & consultants
5.Type of project	Construction of Medical College with built up area 132103 Sq.mts
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	NA
8.Location of the project	Chandrapur
9.Taluka	Chandrapur
10.Village	Chandrapur
Correspondence Name:	Sh.Binod Kumar
Room Number:	HSCC India Ltd
Floor:	E-6(A), Sector -1
Building Name:	HSCC India Ltd
Road/Street Name:	Sector 1
Locality:	Noida
City:	Noida
11.Whether in Corporation / Municipal / other area	Chandrapur City Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Chandrapur City Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: 0000
	Approved Built-up Area: 132103
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.)	404700
16.Deductions	NA
17.Net Plot area	404700
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 0.33
	b) Non FSI area (sq. m.):
	c) Total BUA area (sq. m.): 132103
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 0.33
	Approved Non FSI area (sq. m.):
	Date of Approval: 04-04-2019
19.Total ground coverage (m2)	404700
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA
21.Estimated cost of the project	6146700000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	20	9	27

23.Number of tenants and shops	NA
24.Number of expected residents / users	15074
25.Tenant density per hectare	0
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	NA
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Construction of Medical Collge	0	132103	Sq.mts

32.Total Water Requirement

Dry season:	**Source of water**	Muncipal Authorities
	Fresh water (CMD):	713.33
	Recycled water - Flushing (CMD):	452.877
	Recycled water - Gardening (CMD):	219
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1166
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Wet season:	**Source of water**	Muncipal Authorities
	Fresh water (CMD):	1166
	Recycled water - Flushing (CMD):	452.877
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	0
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	1166	1166	0	174.90	174.90	0	991.10	991.10

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	0
	Size and no of RWH tank(s) and Quantity:	25.142 cum, 20
	Location of the RWH tank(s):	With in site area
	Quantity of recharge pits:	1291.617
	Size of recharge pits :	25.142
	Budgetary allocation (Capital cost) :	6 Lakhs
	Budgetary allocation (O & M cost) :	2.5 Lakhs
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	NA
	Quantity of storm water:	0
	Size of SWD:	0
Sewage and Waste water	**Sewage generation in KLD:**	991
	STP technology:	MODULAR STP
	Capacity of STP (CMD):	991
	Location & area of the STP:	With in site area
	Budgetary allocation (Capital cost):	265 Lakhs
	Budgetary allocation (O & M cost):	8.0 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Enclosed in conceptual plan
	Disposal of the construction waste debris:	Enclosed in conceptual plan
Waste generation in the operation Phase:	**Dry waste:**	Garbage-6257 Kgs/day
	Wet waste:	Enclosed in conceptual plan
	Hazardous waste:	Waste Oil-1000 LPA
	Biomedical waste (If applicable):	1316 Kg/day
	STP Sludge (Dry sludge):	50 Kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	To muncipal authorities
	Wet waste:	NA
	Hazardous waste:	Authorized agencies
	Biomedical waste (If applicable):	Common bio medical waste treatment and disposal to authorized agencies
	STP Sludge (Dry sludge):	Enclosed in conceptual plan
	Others if any:	Dump yard
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	within site area
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20 Lakhs
	O & M cost:	4.5 Lakhs

37.Effluent Charecterestics

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

Amount of effluent generation (CMD):	991.109
Capacity of the ETP:	2x600 KLD
Amount of treated effluent recycled :	452.877
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	dump yard

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Waste oil	hazardous	Not applicable	0	1000 LPA	1000 LPA	Authorized agencies

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	HSD	4	5	NA	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	0	NA	NA

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

43.Green Belt Development	**Total RG area :**	Enclosed in conceptual plan
	No of trees to be cut :	Enclosed in conceptual plan
	Number of trees to be planted :	Enclosed in conceptual plan
	List of proposed native trees :	Enclosed in conceptual plan
	Timeline for completion of plantation :	Enclosed in conceptual plan

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	Enclosed in conceptual plan	Enclosed in conceptual plan	Enclosed in conceptual plan	Enclosed in conceptual plan
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	Enclosed in conceptual plan	Enclosed in conceptual plan	Enclosed in conceptual plan

47.Energy

Power requirement:	**Source of power supply :**	State Electricity Board
	During Construction Phase: (Demand Load)	6900 KVA
	DG set as Power back-up during construction phase	0
	During Operation phase (Connected load):	4x1250 KVA
	During Operation phase (Demand load):	4x2500 KVA
	Transformer:	4x2500 KVA
	DG set as Power back-up during operation phase:	Enclosed in conceptual plan
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Enclosed in conceptual plan

48.Energy saving by non-conventional method:

Enclosed in conceptual plan

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Enclosed in conceptual plan	Enclosed in conceptual plan

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	0	2x600 KLD

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Enclosed in conceptual plan
	O & M cost:	Enclosed in conceptual plan

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Enclosed in conceptual plan	Enclosed in conceptual plan	Enclosed in conceptual plan

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	EMP Budget	EMP Budget	401	29

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Enclosed in conceptual plan

Parking details:	**Number and area of basement:**	Enclosed in conceptual plan
	Number and area of podia:	Enclosed in conceptual plan
	Total Parking area:	Enclosed in conceptual plan
	Area per car:	Enclosed in conceptual plan
	Area per car:	Enclosed in conceptual plan
	Number of 2-Wheelers as approved by competent authority:	Enclosed in conceptual plan
	Number of 4-Wheelers as approved by competent authority:	Enclosed in conceptual plan
	Public Transport:	Enclosed in conceptual plan
	Width of all Internal roads (m):	Enclosed in conceptual plan
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	NA
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	24-05-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 404700 m2, FSI area of 121245 m2, Non FSI area of 12552 m2 and total BUA of 133798 m2.

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

The Committee noted building configuration of the proposal as follows: Hospital Building (2 Basement+G+6th Floor), Medical college lab building (G+6th Floor), Medical college office building (G+4th Floor), Library & Administration building (G+2nd Floor), Type-II Residential building (G+2nd Floor), Type-III Residential building (G+2nd Floor), Type-IV Residential building (G+4th Floor), Type-V Residential building (G+4th Floor), Director Bungalow (G+1st floor), UG Boys Hostel (G+5th Floor), UG girls Hostels (G+7th Floor), Intern Hostels (G+9th Floor), Resident Hostels (G+8th Floor), Amenity-1(G), Amenity-2 (G), IMA office (G), Autopsy (G) and ESS Block (G).

DECISION OF SEAC

During discussion following points emerged:

1. PP has prepared CER plan for 6.15 Cr, wherein, (i) PP has proposed health check up / awareness camp costing 80 Lakh. This is not permissible. PP to undertake some asset creation activity instead. (ii) PP has proposed 1000 trees plantation for 80 Lakh. Per tree cost is very high. PP to propose plantation 2000 trees. PP to submit location of plantation. (iii) PP has proposed construction of toilets, overhead tanks, solar street light. PP to submit details of number and locations. (iv) PP has proposed solar plant, RWH units, waste management for 1.6 Cr. PP to submit details of number and location. (V) PP has proposed skill development program. Instead of this, PP to propose electric cremation facility which will be useful for society. PP to submit revised CER accordingly.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for "Center for Perfect Health" by Maharishi Vedoddharak Foundation and Maharishi Vedic Health Pvt Ltd at Wahangaon, Pune, Maharashtra

Is a Violation Case: No

1.Name of Project	"Center for Perfect Health" by Maharishi Vedoddharak Foundation and Maharishi Vedic Health Pvt Ltd
2.Type of institution	Private
3.Name of Project Proponent	Maharishi Vedoddharak Foundation and Maharishi Vedic Health Pvt Ltd - Mr. Giridhari Shriniwas Kale
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Integrated Project of Tourism, Health, Education & Ayurveda Industry.
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Gat No.57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 70, 71, 72, 73,79, 81, 82, 83, 100, 2, 77, 78, 99, 80, 105, 55, 56, 1, 318, 326, 328, 345, 347, 363, 369, 364, 367, 344, 88, 84, 317, 320, 348, 368, 369, 68,69,75, Village Wahangaon, Tal: Maval, Dist: Pune.
9.Taluka	Maval
10.Village	Wahangaon
Correspondence Name:	Mr. Giridhari Shriniwas Kale
Room Number:	C-10, Abhimanshree Society, Pashan Road, Baner , Pune-411007
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	-
City:	-
11.Whether in Corporation / Municipal / other area	Integrated Industrial Area (Wahangaon Grampanchayat)
12.IOD/IOA/Concession/Plan Approval Number	Under process
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 162577
13.Note on the initiated work (If applicable)	Work not initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Under process
15.Total Plot Area (sq. m.)	7,36,200 m2 (73.62 Ha.)
16.Deductions	1,31,889 m2
17.Net Plot area	6,04,311 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,62,577 m2
	b) Non FSI area (sq. m.): 4,066 m2
	c) Total BUA area (sq. m.): 166643
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** -
	Approved Non FSI area (sq. m.): -
	Date of Approval: 28-12-2018
19.Total ground coverage (m2)	88,026 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12%
21.Estimated cost of the project	4500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Security Cabin (6 Nos.)	Ground	4
2	Factory building (3 wings)	Ground	10
3	Private University	-	-
4	a. Admin	-	-
5	b. College	-	-
6	c. Nursing College	-	-
7	d. Hostel (Boys & Girls)	-	-
8	e. Mess	-	-
9	Ayurveda College & Hospital (100 Beds)	Ground + 4	25
10	a. Doctor's & Staff apartment	Ground + 1	10
11	b. Recovery Villas Type 2 (OPD)	Ground + 1	10
12	50 Rooms Hotel (2 Wings)	Ground + 2	15
13	Veda Research Centre	-	-
14	a. Pandit Mess	Ground	8
15	b. Pandit Residence (12 Nos.)	Ground + 1	10
16	Apartment (9 Nos.)	Ground + 2	15
17	Japa Hall (4 Nos.)	Ground	5
18	Pandit Yagya Shala (19 Nos.)	Ground	5
19	VIP Residence (2 Nos.)	Ground + 1	10
20	Meditation Hall	Ground	8
21	Toilets for Veda Research Centre	Ground	4
22	Pandit Laundry	Ground	4
23	Administration Building	Ground + 8	40
24	East Gate	Ground	10
25	Shopping Market	Ground	15
26	Traditional Village Market	Ground	6
27	Big Hall	Ground	15
28	Restaurant for market	Ground	15
29	Invincibility Tower	Ground + 11	60
30	Vedic Theme Park (64 nos.)	Ground	7
31	Mountains (Only decorative part)	Ground	25
32	Wedding Hotel	Ground + 2	15
33	Wedding Space	Ground	10
34	Banquet Hall	Basement + Ground	25
35	Organic Restaurant	Ground	6
36	Hotel (146 rooms)	Basement + Ground + 3	32
37	40 Rooms Hotel	Ground	8
38	30 Rooms Hotel	Ground	8
39	Treatment Rooms Cluster (5 Nos.)	Ground	8
40	Fitness club	Ground	6

41	Kala shala (7 Nos.)	Ground	5
42	Public toilets (3 Nos.)	Ground	5
43	Villas (177 Nos.)	-	-
44	a. Villa Type 1 (26 Nos.)	Ground + 1	15
45	b. Villa Type 2 (36 Nos.)	Ground	8
46	c. Villa Type 3 (25 Nos.)	Ground	8
47	d. Villa Type 4 (20 Nos.)	Ground	8
48	e. Villa Type 5 (7 Nos.)	Ground + 1	15
49	f. Villa Type 6 (11 Nos.)	Ground + 1	15
50	g. Villa Type 7 (40 Nos.)	Ground + 1	15
51	h. Villa Type 8 (12 Nos.)	Ground	8

23.Number of tenants and shops	No. of shops – 1 Restaurant (Multi Casinos)
24.Number of expected residents / users	Total Population -3,784 nos. (Permanent population-998 nos. + floating population – 2786 nos.)
25.Tenant density per hectare	62 nos./ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Farm house bungalow, Labour camp & RWH tank
30.Details of the demolition with disposal (If applicable)	Only Labour camp which is a temporary structure, will be demolished. Construction debris will be reused in Project.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	1. Ayurvedic medicines	Not applicable	1200	1200
2	2. Aroma oils and Treatment Oils	Not applicable	100	100
3	3. Food supplements	Not applicable	1000	1000
4	4. Vedic Honey	Not applicable	250	250
5	5. Organic Food Processing	Not applicable	1000	1000
6	6. Organic Cosmetics	Not applicable	250	250

7	7. Organic Cloth Stitching	Not applicable	-	-
8	8. Cow dairy products	Not applicable	75	75

32.Total Water Requirement

Dry season:	**Source of water**	Thokarwadi Dam
	Fresh water (CMD):	306 m3/day
	Recycled water - Flushing (CMD):	118 m3/day
	Recycled water - Gardening (CMD):	206 m3/day
	Swimming pool make up (Cum):	5 m3 (Make up water)
	Total Water Requirement (CMD) :	429 m3/day
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	5 m3 (On top of each RCC construction bldg.)
	Excess treated water	Will be used for landscape
Wet season:	**Source of water**	Thokarwadi Dam
	Fresh water (CMD):	306 m3/day
	Recycled water - Flushing (CMD):	118 m3/day
	Recycled water - Gardening (CMD):	103 m3/day
	Swimming pool make up (Cum):	5 m3 (Make up water)
	Total Water Requirement (CMD) :	429 m3/day
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	5 m3 (On top of each RCC construction bldg.)
	Excess treated water	Will be used for landscape
Details of Swimming pool (If any)	1 No. for fitness club Dimensions of swimming pool – 25 m x 15 m (1.5 m depth) Make up water requirement – 5 m3	

33.Details of Total water consumed

Particulars	**Consumption (CMD)**			**Loss (CMD)**			**Effluent (CMD)**		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Industrial Process	Not applicable	200	200	Not applicable	24	24	Not applicable	176	176

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6 m BGL
	Size and no of RWH tank(s) and Quantity:	1 no. x 200 m3
	Location of the RWH tank(s):	As per layout
	Quantity of recharge pits:	33 nos. (as per 1 pit for 5,000 m2 of built up area)
	Size of recharge pits :	2.5 m x 2.5 m x 3 m depth
	Budgetary allocation (Capital cost) :	Rs. 25 Lakh
	Budgetary allocation (O & M cost) :	Rs. 2 Lakh/year
	Details of UGT tanks if any :	2 x 200 m3 for Fire & drinking water
35.Storm water drainage	**Natural water drainage pattern:**	Along with contour
	Quantity of storm water:	1.5 m3/sec
	Size of SWD:	300 mm x 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	Total 185 m3/day (Excluding Hospital)
	STP technology:	MBBR
	Capacity of STP (CMD):	Total 200 m3/day
	Location & area of the STP:	As per contour
	Budgetary allocation (Capital cost):	Rs. 50 Lakh
	Budgetary allocation (O & M cost):	Rs. 5 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	64,852 m3 Mostly Biomass, Agro waste and Bio-degradable
	Disposal of the construction waste debris:	Will be used for backfilling & landscaping purpose.
Waste generation in the operation Phase:	**Dry waste:**	350 kg/day
	Wet waste:	525 kg/day
	Hazardous waste:	9 kg/day (ETP sludge)
	Biomedical waste (If applicable):	35 kg/day
	STP Sludge (Dry sludge):	9 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized vendor for further processing
	Wet waste:	Treated in organic waste composting machine
	Hazardous waste:	Handed over to CPCB authorized vendor for further processing
	Biomedical waste (If applicable):	Handed over to CPCB authorized vendor for further processing
	STP Sludge (Dry sludge):	Used for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	2 locations, 2 nos. of OWC machines with total capacity 600 kg/day
	Area for the storage of waste & other material:	Total area 120 m2 (50 m2 & 70 m2)
	Area for machinery:	25 m2 for each machine
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 15 Lakh
	O & M cost:	Rs. 3 Lakh/year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4.85	6.5-7.5	6.5-7.5
2	COD	mg/l	12000	<250	<250
3	BOD, 3 days @ 270c	mg/l	3000	<30	<30
4	Suspended solids	mg/l	1500	<100	<100
5	Oil & grease	mg/l	150	Nil	Nil

Amount of effluent generation (CMD):	Total 176 m3/day (From Ayurvedic Hospital, Hotel & factory building)
Capacity of the ETP:	Total 200 m3/day
Amount of treated effluent recycled :	172 m3/day
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Chemical coagulation with sedimentation and disinfection with UV (MBBR with Zero liquid discharge)
Disposal of the ETP sludge	Treated into sludge drying bed & disposal to common hazardous treatment unit

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge	2.2	Kg/day	Not applicable	9	9	Handed cover to CPCB authorized vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Drugs/ Neurtaceiticalls (Ayurvedic aroma oils, foods supplements, organic foods)	Furnace oil/LPG – 200 MT/month	1	30 m	Top 1500 mm	30o c

2	Cow and Dairy products/ Honey, cosmetics	Wood- 600 MT/month	2	30 m	Top 1500 mm	30o c

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace oil /LPG	Not applicable	200 MT/month	200 MT/month
2	Wood	Not applicable	600 MT/month	600 MT/month
41.Source of Fuel		Local Market		
42.Mode of Transportation of fuel to site		Road Transport		

43.Green Belt Development	**Total RG area :**	67,189 m2
	No of trees to be cut :	120 Nos.
	Number of trees to be planted :	The project proposes to plant large plantation of Trees with medicinal value. Partial list enclosed.
	List of proposed native trees :	Large plantation is being made for manufacture of ayurvedic medicines & oils
	Timeline for completion of plantation :	Large no. of trees are present at site which are more than required as per norms. Tree land scaping and additional plantation if any will be completed within 12 months after project completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Existing Trees	-	-	-
2	psidium guajava	Jambhul	34	Evergreen small, fruit bearing tree
3	Artocarpus heterophyllus	Fanas	47	Shady, fruit bearing tree
4	Mangifera indica	Mango	3396	Large evergreen fruit bearing tree.
5	Eucalyptus	Nilgiri	13	-
6	-	Other	749	-
7	Proposed Tree	-	-	-
8	Aegle marmelos	Bel	100	Medicinal properties
9	Terminalia Chebula	Hirda	100	Medicinal properties
10	Terminalia bellarica	Behada	100	Medicinal properties
11	Syzygium cumini	Jambul	100	Evergreen palm. Medicinal and Ornamental plant
12	Terminalia arjuna	Arjun	100	Medium sized deciduous tree. Bright scarlet flowers.
13	Thevetia peruviana	Yellow Kaner	100	State flower tree of Maharashtra, Medium sized tree, has beautiful purple flowers
14	Cassia fistula	Bahava	100	Shady tree bearing white fragrant flowers.
15	Cinnamomum camphora	Karpur	100	Medium sized evergreen and shady tree having fragrant flowers
16	Litsea chinensis	Meida	100	Tall deciduous tree having medicinal properties
17	Cinnamomum tamala	Tejpatta	100	Large evergreen fruit bearing tree.

18	Commiphora wightii	Guggul	100	Small hardy tree bearing fragrant flowering with medicinal properties
19	Oroxylum indicum	Tetu	100	Small rounded deciduous tree with fragrant flowers
20	Pongamia pinnata	Karanj	100	Evergreen flowering tree.
21	Michelia champaca	Champa	100	Evergreen ornamental tree
22	Bauhinia variegata	Kanchan	100	Deciduous flowering tree
23	Azadirachta indica	Neem	100	Medicinal properties
24	Saraca asoka	Ashoka	100	Medicinal properties
25	Symplacos racemosa	Lodh/Lodhra	100	Medicinal properties
26	Putranjiva roxburgii	Putranjiva	100	Medicinal properties
27	Mesua ferrea	Nagakesar	100	Medicinal properties
28	Sterculia uren	Mowai	100	Medicinal properties
29	Butea monosperma	Dhawada	100	Medicinal properties
30	Dellenia indica	Chilta	100	Medicinal properties
31	Madhuca indica	Mahua	100	Medicinal properties
32	Emblica officinalis	Amla	100	Medicinal properties
33	Gmelina arborea	Shivan	100	Medicinal properties
34	Santalum alba	Chandan	100	Medicinal properties
35	Mimusops elangi	Bakul	100	Medicinal properties
36	Schleichera oleosa	Kusum	100	Medicinal properties
37	Alstonia scholaris	Saptaparni	100	Medicinal properties
38	Elaeocarpus ganitrus	Rudraksh	100	Medicinal properties
39	Cinnamomum zeylanicum	Dalchini	100	Medicinal properties
40	Myristica fragrans	-	100	Medicinal properties
41	Syzygium aromaticum	Laung	100	Medicinal properties
42	Ficus carica	Anjir	100	Medicinal properties
43	Acacia nilotica	Babbul	100	Medicinal properties
44	Grewia titliaefilia	Dhanvan	100	Medicinal properties
45	Tecoma undulata	Rohita	100	Medicinal properties
46	Basella alba	Poi	100	Medicinal properties
47	Abrus precatorius	Gunj	100	Medicinal properties
48	Strychnos nuxvoica	Kavi/Kuchala	100	Medicinal properties
49	Emblica offficinalis	Avala	100	Medicinal properties
50	Ficus glamorata	Umber	100	Medicinal properties
51	Syzygium cumini	Jamun	100	Medicinal properties
52	Dalbergia sissoo	Sissoo	100	Medicinal properties
53	Bambusa arundinacea	Bamboo	100	Medicinal properties
54	Ficus religiosa	Peepal	100	Medicinal properties
55	Messua ferrea	Nagachampa	100	Medicinal properties
56	Ficus bengalensis	Vad	100	Medicinal properties
57	Butea monosperma	Palas	100	Medicinal properties
58	Ficus virens	Payar	100	Medicinal properties

59	Sapindus mukorrossi	Ritha	100	Medicinal properties
60	Flacourtia indica	Vahecal	100	Medicinal properties
61	Mimusops elengi	Bakul	100	Medicinal properties
62	Pinus roxburghii	Cheer	100	Medicinal properties
63	Shorea robusta	Sal	100	Medicinal properties
64	Salix tetrasperma	Salix	100	Medicinal properties
65	Artocarpus heterochyllus	Phanas	100	Medicinal properties
66	Calotropis gigantea	Rui	100	Medicinal properties
67	Prosopis cineraria	Shami	100	Medicinal properties
68	Neolamarkia cadamba	Kadamba	100	Medicinal properties
69	Mangifera indica	Mango	100	Medicinal properties
70	Premna serratifoila	Premna	100	Medicinal properties
71	Stereospermum suaveolens	Padal	100	Medicinal properties
72	Desmodium gangeticum	Salwan	100	Medicinal properties
73	Uraria picta	Pitwan	100	Medicinal properties
74	Tribulus terrestris	Meida	100	Medicinal properties
75	Semaruba glauca	Laxmitaru	100	Medicinal properties
76	Sterculia uren	Jatropha	100	Medicinal properties
77	Acacia catachu	Kadai/Kandol	100	Medicinal properties
78	Anogeissus latifolia	Khair	100	Medicinal properties
79	Dicamalli	Dhawada	100	Medicinal properties
80	Boswellia serrata	-	100	Medicinal properties
81	lennea grandis	Salai	100	Medicinal properties
82	Total	-	11,439	-
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	2 nos. x 50 kW
	During Operation phase (Connected load):	10 MW
	During Operation phase (Demand load):	5 MW
	Transformer:	Total 15 MW
	DG set as Power back-up during operation phase:	Total 2 nos. x 500 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Solar Water Heating 100% hot water requirement
2. LED lights in Common area & all open spaces
3. Maximum daylight and ventilation as per ECBC norms

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED in common areas	3 %
2	Energy efficient pumps	2 %
3	Efficient envelope to reduce heat gain	3 %
4	Right glass & WWR for maximum light & ventilation	1 %
5	Solar water heater	10 %
6	Timer for staircase lightening, Lift lobby, Parking area and street light	1 %
7	Overall Energy Saving	4.5 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 30 Lakh
	O & M cost:	Rs. 3 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Air Environment	Water for dust suppression	15
2	Socio- Economic Environment	Site sanitation, Toilets, STP, safe drinking water	20
3	-	Disinfection at site	5
4	-	Health check-up for workers, first aid kit	7
5	-	Safety net	5
6	Environment management	For Air, Noise, Water Analysis	3
7	-	Site fencing &noise barrier	2
8	-	Traffic management	2
9	-	Storm water management	5
10	-	Vehicle maintenance, washing area, tyre cleaning	3
11	-	Tree plantation & water utilization	5
12	Training and awareness	Safety personal protective equipment & Training programs	5
13	Total	-	77

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	For treatment of sewage generated.	30	3
2	Effluent Treatment Plant	For treatment of effluent generated.	40	4
3	Rain Water Harvesting	33 nos. of recharge pits with 2 nos.	25	2
4	Storm Water Management	-	20	1
5	Solid Waste Management	Treatment of solid waste	15	3
6	Solid Waste Management	Treatment of solid waste	15	3
7	Energy Conservation	Solar PV cell	30	3
8	Environmental Monitoring	-	MoEF Approved Lab	5
9	Fire Fighting System	-	20	2
10	Water Treatment Plant	-	5	1
11	tOTAL	-	185	24

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2 Nos.
Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	9860 m2
	Area per car:	25 m2
	Area per car:	25 m2
	Number of 2-Wheelers as approved by competent authority:	Scooters- 556 Nos. (Visitors-51 Nos.+ Normal -505 Nos.) Cycles- 556 Nos. (Visitors-51 Nos.+ Normal -505 Nos.)
	Number of 4-Wheelers as approved by competent authority:	301 Nos. (Visitors-27 Nos.+ Normal -274)
	Public Transport:	NA
	Width of all Internal roads (m):	9 m & 12 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(b)
	Court cases pending if any	NA
	Other Relevant Informations	NA

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 736200 m2, FSI area of 1,62,577 m2, Non FSI area of 4066 m2 and total BUA of 166643 m2.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(a)b1.

DECISION OF SEAC

During discussion following points emerged:

1. PP to provide two ambulances for people in vicinity under CER.
2. PP to explain what employment avenues will be created by the project.
3. PP to submit Plan indicating collection of waste and biomedical waste management details.
4. PP to submit UGT sections.
5. PP to submit RG plan with detailed calculations of RG area in virgin land.
6. PP to submit plantation plan incorporating local native fruit bearing trees.
7. PP to submit tree cutting NOC.
8. PP to submit Undertaking for retaining of existing trees & transplantation if any.
9. PP to remove allergic plants & submit details of management of toxic plants.
10. PP to submit Canopy-wise calculations of proposed trees.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for Expansion of Residential & Commercial Project at Gat No. 1281, 1283, 1277, 1278, 1279, 1284, Wagholi, Tehsil- Haveli, Dist.- Pune

Is a Violation Case: No

1.Name of Project	Expansion of Residential & Commercial Project at Gat No. 1281, 1283, 1277, 1278, 1279, 1284 Wagholi, Tehsil- Haveli, Dist.- Pune
2.Type of institution	Private
3.Name of Project Proponent	Panchshil Infrastructure Holdings Pvt. Ltd.
4.Name of Consultant	MITCON Consultancy & Engineering Services Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC obtained vide SEAC-2011/CR-696/TC-2 dated 10.04.2014
8.Location of the project	Gat No. 1281, 1283, 1277, 1278, 1279, 1284
9.Taluka	Haveli
10.Village	Wagholi
Correspondence Name:	Mr. Anand Sanghvi
Room Number:	Tower E
Floor:	4th Floor
Building Name:	Tech Park One
Road/Street Name:	NA
Locality:	Yerwada
City:	Pune
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	CC No 56/18-18 dated 02.05.2017
	IOD/IOA/Concession/Plan Approval Number: CC No 56/18-18 dated 02.05.2017
	Approved Built-up Area: 434042.95
13.Note on the initiated work (If applicable)	Construction has been initiated as per previous granted EC. Total Built up area as on date 394044.15 Sq. m.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	CC No 56/18-18 dated 02.05.2017
15.Total Plot Area (sq. m.)	503100
16.Deductions	59303.82
17.Net Plot area	449531.25
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 520666.01
	b) Non FSI area (sq. m.): 443328.24
	c) Total BUA area (sq. m.): 963994.25
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 520666.01
	Approved Non FSI area (sq. m.): 443328.24
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	0
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0
21.Estimated cost of the project	27380000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	V1 – Super Luxury Villas - 8 Nos.	LG+UG+1 floor	12
2	V2 - Luxury Villas – Total 27 Nos.	G+1 floor	7
3	V3 - Mid Luxury Villas – Total 140 Nos.	G+1 floor	7
4	T1, T2, T3, T4	G+1 floor	8.5
5	W – (01-06)	LG1+LG2+GR/P+27	99.20
6	Club House – 2 Nos.	G/P + 1 floor	4.8
7	Tower A	LG3+LG2+LG1+P/GR+MZ+1st To 30th + Terrace	99.20
8	Tower B	LG3+LG2+LG1+P/GR+MZ+1st To 30th + Terrace	99.20
9	Tower C	LG3+LG2+LG1+P/GR+MZ+1st To 30th + Terrace	99.20
10	Tower D	LG3+LG2+LG1+P/GR+MZ+1st To 30th + Terrace	99.20
11	Tower E	LG3+LG2+LG1+P/GR+MZ+1st To 30th + Terrace	99.20
12	Tower F	LG3+LG2+LG1+P/GR+MZ+1st To 30th + Terrace	99.20
13	Tower G	LG3+LG2+LG1+P1+P2+3rd To 31st + Terrace	99.20
14	Tower H	LG3+LG2+LG1+P1+P2+3rd To 31st + Terrace	99.20
15	Tower I	LG3+LG2+LG1+P1+P2+3rd To 31st + Terrace	99.20
16	BOX Street Office	B2+B1+GR+MZ+4 Floors (Residential)	23.03
17	BOX Street Office	B2+B1+GR+MZ+4 Floors (9 offices + 19 shops)	23.03
18	RP IT	B3+B2+B1+G+MZ1+MZ2+1st till 16	70.20 M
19	School -1 No.	LG+GR+1St to 3rd Floor	16.70

23.Number of tenants and shops	Tenements: 1559 Shops: 19 Nos.
24.Number of expected residents / users	Resident Users: 6076, Offices Users: 15262,Total: 21338
25.Tenant density per hectare	250 T/Hec
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is min 9 m
29.Existing structure (s) if any	Construction is in process as per previous granted 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**	FROM RIVER
	Fresh water (CMD):	1255
	Recycled water - Flushing (CMD):	939
	Recycled water - Gardening (CMD):	702
	Swimming pool make up (Cum):	45
	Total Water Requirement (CMD) :	2941
	Fire fighting - Underground water tank(CMD):	2,00,000 Lts. for HR-H, 1,00,000 Lts. for VILLAS
	Fire fighting - Overhead water tank(CMD):	25,000 LTS. each BLDG. TOTAL-25000x9=2,25,000Lts.
	Excess treated water	120

Wet season:	**Source of water**	FROM RIVER
	Fresh water (CMD):	1255
	Recycled water - Flushing (CMD):	939
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	45
	Total Water Requirement (CMD) :	2239
	Fire fighting - Underground water tank(CMD):	2,00,000 Lts. forHR-H, 1,00,000 Lts. for VILLAS
	Fire fighting - Overhead water tank(CMD):	25,000 LTS. each BLDG. TOTAL-25000x9=2,25,000 Lts.
	Excess treated water	822
Details of Swimming pool (If any)	Swimming Pools Provided.	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	1255	1255	0	125	125	0	1130	1130
Gardening	0	702	702	0	702	702	0	0	0
Fresh water requirement	0	1255	1255	0	125	125	0	1130	1130

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	As per hydrogeo report
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	49 Nos. for Villa Area & 15 Nos. for HR-H Bldg. area
	Size of recharge pits :	(1.50x1.50) M- Varying from 6M. to 50M.
	Budgetary allocation (Capital cost) :	80 lakhs
	Budgetary allocation (O & M cost) :	7 lakhs/yr.
	Details of UGT tanks if any :	Fire : 1. Villa & Club House: 1 lakh lits. 2. High Rise - H: 2 lakh lits. 3. BOX Street Office: 3 lakh lits. 4. High Rise - W: 3 lakh lits. 5. School: 50 Thousand lits. 6. Soho: 75 Thousand lits. Domestic: 1. Villa & Club House: 1 lakh lits. 2. High Rise - H: 3.6 lakh lits. 3. BOX Street Office: 3.5 lakh lits. 4. High Rise - W: 1.8 lakh lits. 5. School: 40.5 Thousand lits. 6. Soho: 75 Thousand lits. Flushing: 1. High Rise - H: 1.5 lakh lits. 2. BOX Street Office: 3.2 lakh lits. 3. High Rise - W: 1.7 lakh lits. 4. School: 51 Thousand lits. 5. Soho: 85 Thousand lits.
35.Storm water drainage	**Natural water drainage pattern:**	As per Contour layout
	Quantity of storm water:	Final Discharge Provided at two locations1) Near RD8 Circle (Q=0.70cum/sec) 2) RD23 Near Jack Well (Q=1.12cum/sec)
	Size of SWD:	Final Discharge Provided at two locations 1) Near RD8 Circle (Pipe 900 dia +750 dia) 2) RD23 Near Jack Well (Pipe 2 No. 900 dia)
Sewage and Waste water	**Sewage generation in KLD:**	1755.3
	STP technology:	MBBR+UF
	Capacity of STP (CMD):	6 Nos. having capacity of 210, 550, 615, 280, 50 & 100 KLD
	Location & area of the STP:	As per layout
	Budgetary allocation (Capital cost):	100 lakhs
	Budgetary allocation (O & M cost):	10 lakhs/yr.

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Soft rock: 515,000 m3, Hard Rock: 974,000 m3
	Disposal of the construction waste debris:	Out of this 900000 m3 will be used within the site for backfilling, Road Development, Leveling and the remaining quantity of 589000 m3 will be used in other construction sites.
Waste generation in the operation Phase:	**Dry waste:**	2710 Kg/d
	Wet waste:	2362 Kg/d
	Hazardous waste:	4125 Kg/yr.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	94 Kg/d
	Others if any:	E Waste: 2250 Kg/yr.
Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorized vendor
	Wet waste:	Will be composted on site & manure will be used for greenbelt/landscape
	Hazardous waste:	Will be handed over to authorized vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be composted on site & manure will be used for greenbelt/landscape
	Others if any:	E waste will be handed over to authorized vendor
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	1500 Sq. m.
	Area for machinery:	1500 Sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	35.5 lakhs
	O & M cost:	1.7 lakhs/yr.

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	Kg/yr.	0	4125	4125	Will be handed over to authorized vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set	Diesel: 6186.4 Lit/hr.	29	2.5 m above terrace	0.4	150 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Not applicable	6186.4 Lit./hr.	6186.4 Lit/hr.
41.Source of Fuel		Local Vendor		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	67245.0 Sq. m.
	No of trees to be cut :	0
	Number of trees to be planted :	4780
	List of proposed native trees :	Attached as below
	Timeline for completion of plantation :	2 years after 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	Bahava	Cassia fistula	200	Flowering Plant
2	Royal Palm	Roystonea regia	200	Beautification
3	Maharukh	Ailathus excelsa	200	Beautification
4	Laxmi Taru	Simarouba glauca	230	Medicinal Value
5	Ashoka	Polyalthia longifolia	230	Medicinal Value
6	Fish Tail Palm	Caryota Mitis	200	Beautification
7	Shirish	Albizia Lebbeck	230	Shady & Medicinal Value
8	Neem	Azadirachta indica	200	Medicinal Value
9	Karanj	Millettia Pinnata	230	Medicinal Value
10	Mango	Mangifera indica	200	Fruit bearing
11	Jambhul	Syzygium cumini	200	Fruit bearing
12	Kadipatta	Murraya koenigii	200	Medicinal Plant
13	Sonchafa	Michelia champaca	230	Flowering Plant
14	Temple tree	Plumeria acutifolia	200	Flowering Plant
15	Tulip tree	Spathodea campanulata	200	Flowering Plant
16	Awala	Phyllanthus emblica	200	Fruit bearing
17	Parijat	Ncytanthus arbortristis	200	Flowering Plant
18	Apta	Bauhinia racemose	200	Cultural & Religious
19	Palas	Butea monosperma	200	Flowering Plant

20	Mulberry	Morus alba	200	Fruit bearing
21	Karamal	Dillenia indica	200	Beautification
22	Bakul	Mimusops elengi	200	Flowering Plant
23	Foxtail palm	Wodyetia bifurcate	200	Beautification
24	Salix	Wodyetia bifurcate	30	Beautification
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)	350 KW
	DG set as Power back-up during construction phase	High rise Bldg – 2 x 600 KVA, Villa – 1 x 250 KVA
	During Operation phase (Connected load):	51968.09 KW
	During Operation phase (Demand load):	27108.64 KW
	Transformer:	8 Nos. x 2000 KVA, 4 Nos. x 4000 KVA, 2 Nos. x 630 KVA, 4 Nos. x 1000 KVA, 4 Nos. x 1600 KVA
	DG set as Power back-up during operation phase:	6 Nos. x 2500, 21 Nos. x 900, 2 Nos. x 625
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- We have already applied for Green Building LEED Certification- platinum Group (Registration Number :GH101120)
- Maximize the use of natural lighting & ventilation through design.
- Timer Switch for Streetlight, Garden light, building staircase & common passages for saving electrical energy.
- Use of solar heater for common areas for saving electrical energy.
- Systematic design of buildings in order to assure maximum natural ventilation and light

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	1. Conventional T8 FTL with magnetic Ballasts (2x36W) Vs. Energy efficient T5 FTL with HF electronic ballasts (2x28W) - 20 %. 2. Conventional transformer against low loss transformer - 20 %	40 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

DG Set	Not applicable	Stack & Acoustic Enclosure
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	4.0 Cr.
	O & M cost:	40.0 Lakhs/yr.

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Environmental Monitoring	Air, water, noise & soil	5.44
2	Air Environment	Water spraying for dust suppression	10.84
3	Water Environment	Tanker water for construction	1.0
4	Socio economic Environment	Disinfection, Pest Control, First Aid Services	15.12

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Air, water, noise & soil	0	12.74
2	Water	RWH	80	7
3	Water	STP	100	10
4	Energy	Solar PV Panels	400	40
5	Land Environment	Gardening/Landscaping	100	12
6	Solid Waste	OWC	45	5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	5 Nos. on RP Road, internal roads of 15 m from all junctions

Parking details:	**Number and area of basement:**	H building (9 Nos.)- 3 basement each having area- 671667 Sq. m., W building (6 Nos.)- 2 Basements having area 16499 Sq. m., BOX Street Office- 3 Basements having 54003 Sq. m. area
	Number and area of podia:	H Building- One podium having area 7500 Sq. m., W Building- one Podium having 2000 Sq. m.
	Total Parking area:	49072.35 Sq. m.
	Area per car:	12.5 Sq. m.
	Area per car:	12.5 Sq. m.
	Number of 2-Wheelers as approved by competent authority:	Scooters- 6543, Cycles- 6543
	Number of 4-Wheelers as approved by competent authority:	2513
	Public Transport:	Available
	Width of all Internal roads (m):	Min. 6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(b)-Townships & Area Development Project
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 503100 m2, FSI area of 524004.53 m2, Non FSI area of 190685 m2 and total BUA of 735641 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. In CER, (i) PP has proposed garbage disposal facility to Wagholi Village. PP to submit details of the same. (ii) PP has proposed to provide fire equipments worth 2 Cr to PMRDA. This is job of PMRDA. PP to replace this activity. (iii) PP has proposed donation of stretchers, blankets etc. PP shall propose activity useful for community and environment like provision of electric cremation facility, ambulance to hospital etc. PP to submit revised CER accordingly.

2. PP to submit approved basement plan.

3. PP to submit copy of approved plan for amalgamation of plots.

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

5. PP to submit phase wise development plan indicating separate entry / exit.

6. PP to submit details of OWC.

7. PP to submit energy saving calculations.

8. PP to submit plan for internal sewage line upto final disposal point.

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

10. PP to submit UGT sections.

11. PP to obtain and submit following NOC's: (a) CFO NOC, (b) Water supply with quantity, (c) Drainage NOC. (d) NOC from High Rise Committee.

12. PP to submit indemnity bond indemnifying Environment Department, GoM from any legal consequences.

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

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for Proposed Construction Project at Sr. No 106 (p), 107 (p) & 108 (p), Village Wakad, Taluka Mulshi, Pune by Wakad Realty Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Proposed Construction Project at Sr. No 106 (p), 107 (p) & 108 (p), Village Wakad, Taluka Mulshi, Pune by Wakad Realty Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Wakad Realty Pvt. Ltd.
4.Name of Consultant	MITCON Consultancy & Engineering Services Ltd.
5.Type of project	IT 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	Sr. No. 106 (p), 107 (p) & 108 (p)
9.Taluka	Mulshi
10.Village	Wakad
Correspondence Name:	Anand Sanghvi
Room Number:	Tower E
Floor:	4th Floor
Building Name:	Tech Park One
Road/Street Name:	NA
Locality:	Yerwada
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Obtained Vide CC No – BP.Env/waked/01/2018 Dt 27.03.2018
	IOD/IOA/Concession/Plan Approval Number: Obtained Vide CC No – BP.Env/waked/01/2018 Dt 27.03.2018
	Approved Built-up Area: 656477.01
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Obtained Vide CC No – BP.Env/waked/01/2018 Dt 27.03.2018
15.Total Plot Area (sq. m.)	123363.0 Sq. m.
16.Deductions	27583.82 Sq. m.
17.Net Plot area	95779.18 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 241101.87
	b) Non FSI area (sq. m.): 369321.54
	c) Total BUA area (sq. m.): 610423.41
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 287155.47
	Approved Non FSI area (sq. m.): 369321.54
	Date of Approval: 27-03-2018
19.Total ground coverage (m2)	21656.05
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0.26
21.Estimated cost of the project	12500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	TOWER-A	Basement5+Basement4+Basement3+Basement2+Basement1+ tower Entry Lobby/ Parking 1 + Parking2+15 office floors above	58.90
2	TOWER-B	Basement4+Basement3+Basement2+Basement1+Ground+ Parking1+ Parking2+ 15 office floors above15 Office floors	58.90
3	TOWER-C	Basement4+Basement3+Basement2+Basement1+ Ground+Parking1+ Parking2+ 14 office floors above14 Office floors	55.0
4	CAFETERIA+GYM+ Function Hall	Parking1+Parking2+2Floors above4 Floors	12.75
5	WELCOME CENTER	Parking1+Parking2+2Floors above	19.50
6	WELCOME CENTER	Parking1+Parking2+2Floors above	19.50
7	WELCOME CENTER	Parking1+Parking2+2Floors above	19.50

23.Number of tenants and shops	Offices: 52
24.Number of expected residents / users	Users of office floors per tower: Tower A- 14190 Nos., Tower B- 12507 Nos., Tower C- 10322 Nos.
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 M wide Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 M and above
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MIDC / Tanker
	Fresh water (CMD):	1010.16
	Recycled water - Flushing (CMD):	787.38
	Recycled water - Gardening (CMD):	110
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1907.54
	Fire fighting - Underground water tank(CMD):	1200
	Fire fighting - Overhead water tank(CMD):	20 CM (Per Tower)
	Excess treated water	810.22
Wet season:	**Source of water**	MIDC / Tanker
	Fresh water (CMD):	1010.16
	Recycled water - Flushing (CMD):	787.38
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1797.54
	Fire fighting - Underground water tank(CMD):	1200
	Fire fighting - Overhead water tank(CMD):	20 CM (Per Tower)
	Excess treated water	920.22
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	1010.16	1010.16	0	101	101	0	909.16	909.16
Gardening	0	110	110	0	110	110	0	0	0
Fresh water requirement	0	1010.16	1010.16	0	101	101	0	909.16	909.16

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	As per Hydrogeo Report
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	16 recharge borewells have been proposed
	Size of recharge pits :	3.25 m x 3.25 m x 3.0 m
	Budgetary allocation (Capital cost) :	20 Lakhs
	Budgetary allocation (O & M cost) :	2 Lakhs/yr.
	Details of UGT tanks if any :	Fire fighting (Underground water tank)= 1200 cmd
35.Storm water drainage	**Natural water drainage pattern:**	As per Contour Layout
	Quantity of storm water:	88.25 m3/min
	Size of SWD:	900 mm dia. 2 Nos. pipe
Sewage and Waste water	**Sewage generation in KLD:**	1707.6
	STP technology:	MBBR
	Capacity of STP (CMD):	1715 cmd
	Location & area of the STP:	As per Layout
	Budgetary allocation (Capital cost):	400 lac (Including Civil)
	Budgetary allocation (O & M cost):	35 lac/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Soft rock: 14654 m3, Hard rock: 75466m3
	Disposal of the construction waste debris:	Will be used for site leveling & back filling
Waste generation in the operation Phase:	**Dry waste:**	3887.0 Kg/d
	Wet waste:	1666.0 Kg/d
	Hazardous waste:	1500 Kg/month
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	170.76 Kg/d
	Others if any:	5553 kg/Annum

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorized vendor
	Wet waste:	Will be composted on site in OWC & manure will be used for landscape/greenbelt
	Hazardous waste:	Will be handed over to authorized vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be composted on site & manure will be used for landscape/greenbelt
	Others if any:	E waste will be handed over to authorized vendor
Area requirement:	**Location(s):**	As per Layout
	Area for the storage of waste & other material:	600 Sq. m.
	Area for machinery:	600 Sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	23.0 Lakhs
	O & M cost:	0.92 Lakhs/yr.

37.Effluent Charecterestics

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent oil	5.1	Kg/yr.	0	1500	1500	Will be handed over to authorized vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Sets	HSD: 4020 Lit/hr.	10	2.5 m above terrace	0.4	150 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	0	4020.0 Lit/hr.	4020.0 Lit/hr.
41.Source of Fuel		Local Vendor		

42.Mode of Transportation of fuel to site	By Road

43.Green Belt Development	**Total RG area :**	11268.14 Sq. m.
	No of trees to be cut :	0
	Number of trees to be planted :	1200
	List of proposed native trees :	Attached as belows
	Timeline for completion of plantation :	2 years after completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	50	Flowering Plant
2	Roystonea regia	Royal Palm	50	Beautification
3	Ailathus excelsa	Maharukh	50	Beautification
4	Simarouba glauca	Laxmi Taru	50	Medicinal Value
5	Polyalthia longifolia	Ashoka	50	Medicinal Value
6	Caryota Mitis	Fish Tail Palm	50	Beautification
7	Albizia Lebbeck	Shirish	50	Shady & Medicinal Value
8	Azadirachta indica	Neem	50	Medicinal Value
9	Millettia Pinnata	Karanj	50	Medicinal Value
10	Mangifera indica	Mango	50	Fruit bearing
11	Syzygium cumini	Jambhul	50	Fruit bearing
12	Murraya koenigii	Kadipatta	50	Medicinal Plant
13	Michelia champaca	Sonchafa	50	Flowering Plant
14	Plumeria acutifolia	Temple tree	55	Flowering Plant
15	Spathodea campanulata	Tulip tree	55	Flowering Plant
16	Phyllanthus emblica	Awala	55	Fruit bearing
17	Ncytanthus arbortristis	Parijat	55	Flowering Plant
18	Bauhinia racemose	Apta	55	Cultural & Religious
19	Butea monosperma	Palas	55	Flowering Plant
20	Morus alba	Mulberry	55	Fruit bearing
21	Dillenia indica	Karamal	55	Beautification
22	Mimusops elengi	Bakul	55	Flowering Plant
23	Wodyetia bifurcate	Foxtail palm	55	Beautification
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)	350 kW
	DG set as Power back-up during construction phase	1 No. x 400 kVA
	During Operation phase (Connected load):	40876 kW
	During Operation phase (Demand load):	24525 kW
	Transformer:	4 x 2500 kVA -Tower A, 4 x 2500 kVA -Tower B, 4 x 2500 kVA -Tower C
	DG set as Power back-up during operation phase:	10 x 3000 kVA for all Towers
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Conventional T8 FTL with Magnetic Ballasts (2x36W). VS. Energy Efficient T5 FTL with HF Electronic Ballasts (2x28W)= 20%,
2. Conventional Transformer against Low loss Transformer= 20%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	1. Conventional T8 FTL with Magnetic Ballasts (2x36W). VS. Energy Efficient T5 FTL with HF Electronic Ballasts (2x28W)= 20%, 2. Conventional Transformer against Low loss Transformer= 20%	40 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG Set	Not applicable	Stack & Acoustic Enclosure

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Capital Cost GIS Substation: 24.5 Cr., Capital cost Tower A, B & C Substation & HT DG Set: 56.5 Cr.
	O & M cost:	2.5 Cr.

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Environmental Monitoring	Air, water, noise & soil	5.44
2	Air Environment	Water spraying for dust suppression	10.84
3	Water Environment	Tanker water for construction	1.0

4	Socio economic Environment	Disinfection, Pest Control, First Aid Services	15.12

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Air, water, noise & soil	0	12.74
2	Water	RWH	20	2
3	Water	STP	100	10
4	Energy	Solar PV Panels & Energy saving	8100	250
5	Land Environment	Gardening/Landscaping	100	12
6	Solid Waste	OWC	23	0.92

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:**	254374.0 Sq. m.
	Number and area of podia:	One podium having 26725.91 Sq. m. area
	Total Parking area:	254373.99 Sq. m.
	Area per car:	12.5 Sq. m.
	Area per car:	12.5 Sq. m.
	Number of 2-Wheelers as approved by competent authority:	9712
	Number of 4-Wheelers as approved by competent authority:	4856
	Public Transport:	Available
	Width of all Internal roads (m):	Min. 6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(b)- Townships & Area Development Projects
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 123363.0 m2, FSI area of 241101.87 m2, Non FSI area of 369321.54 m2 and total BUA of 610423.41 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. In CER, (i) PP has proposed garbage disposal facility to Wagholi Village. PP to submit details of the same. (ii) PP has proposed to provide fire equipments worth 1.5 Cr to PMRDA. This is job of PMRDA. PP to replace this activity. (iii) PP has proposed donation of stretchers, blankets etc. PP shall propose activity useful for community and environment like provision of electric cremation facility, ambulance to hospital etc. PP to submit revised CER accordingly.

2. PP to submit approved basement plan.

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

4. PP to submit cross section of UGT proposing opening chamber from upper side.

5. PP to submit undertake that no occupancy will be given till sewerage line is made available for the project.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for Environment Clearance for Proposed Residential and Commercial project at S no 10/2(P),10/4B/1,10/4B/2(P), 10/6(P),10/7(P),10/15(P) at Punawale by M/S -G K ASSOCIATES

Is a Violation Case: No

1.Name of Project	Proposed Residential and Commercial project at S no 10/2(P),10/4B/1,10/4B/2(P), 10/6(P),10/7(P),10/15(P) at Punawale by M/S -G K ASSOCIATES
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vinod Chandwani
4.Name of Consultant	VKe Environmental LLP
5.Type of project	Residential and Commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S no 10/2(P),10/4B/1,10/4B/2(P), 10/6(P),10/7(P),10/15(P) at Punawale Tal Mulshi Dist Pune
9.Taluka	Mulshi
10.Village	Punawale
Correspondence Name:	Mr. Vinod Chandwani
Room Number:	S.No. 130, Roseland Residency, Pimple Saudagar, Pune, Maharashtra 411027
Floor:	--
Building Name:	Roseland Residency
Road/Street Name:	--
Locality:	Pimple Saudagar
City:	Pune 411027
11.Whether in Corporation / Municipal / other area	Pimpri chinchwad Municipal corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD Received no B.P./ EC /Punawale/06/2019 dated 10/04/2019
	IOD/IOA/Concession/Plan Approval Number: --
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No work initiated on site.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	17271.0
16.Deductions	Total 1692 (including R/W, NDZ area and others)
17.Net Plot area	15579.0
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 28427.05
	b) Non FSI area (sq. m.): 31693.99
	c) Total BUA area (sq. m.): 60121.04
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** In process
	Approved Non FSI area (sq. m.): In process
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2729.34
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	17.51
21.Estimated cost of the project	950000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	G+M+11	35.25
2	Building B	B+P+13	41.80
3	Building C	B+P+13	41.80
4	Building D	B+P+13	41.80
5	Building E	B+P+14	44.70
6	Building F	P+13	40.60
7	Club House	G+1	7.5

23.Number of tenants and shops	No. of Flats 534, No. of shops 10
24.Number of expected residents / users	Residential population 2670;Commercial Population 103;Total Population 2773
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)	Project is accessible from18 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum7.50 m Driveway & 9m Turning radius is provided
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	242
	Recycled water - Flushing (CMD):	123
	Recycled water - Gardening (CMD):	17
	Swimming pool make up (Cum):	03
	Total Water Requirement (CMD) :	385
	Fire fighting - Underground water tank(CMD):	352
	Fire fighting - Overhead water tank(CMD):	25 KLD per building
	Excess treated water	188
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	242
	Recycled water - Flushing (CMD):	123
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	03
	Total Water Requirement (CMD) :	368
	Fire fighting - Underground water tank(CMD):	350
	Fire fighting - Overhead water tank(CMD):	25 KLD per building
	Excess treated water	205
Details of Swimming pool (If any)	1.Dimension of Main Pool swimming pool - 49.2 sq m (8.2 X 6 m) 2.Total water requirement in KL - 144 3.Water requirement for make up in KLD - 3 Per Day 4. Details of quality to be achieved for swimming pool and water and parameters to be monitored: As per IS - 1500 , Ozonized and Chlorine Free	

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 mansoon 10 to 12 m BGL Post Mansoon 2.5 to 3 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	7
	Size of recharge pits :	7 No. of Recharge Structures it 2 m X 3 m with 60 m bore hole.
	Budgetary allocation (Capital cost) :	7,75,000 /-
	Budgetary allocation (O & M cost) :	89,000 L /year
	Details of UGT tanks if any :	Fire Tank: 350 KLD Domestic 370 KLD Flushing 150 KLD
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern: The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge pits
	Quantity of storm water:	295.02 m3 / Day
	Size of SWD:	600 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	329
	STP technology:	MBBR
	Capacity of STP (CMD):	2 STPs will be Provide with capacity of 315 KLD & 35 KLD
	Location & area of the STP:	Above Ground
	Budgetary allocation (Capital cost):	106.78 L
	Budgetary allocation (O & M cost):	16.8 L
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total waste generated: 20 Kg/day Dry Waste = 12kg/day , Wet Waste = 8kg / day
	Disposal of the construction waste debris:	The Construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling
Waste generation in the operation Phase:	**Dry waste:**	368.10 kg/day
	Wet waste:	858.90 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	70kg/day
	Others if any:	e waste: 8 kg/day

Mode of Disposal of waste:	**Dry waste:**	Will be Handed over to authorized Vendor
	Wet waste:	Wet waste will be treated in Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge from STP will be used as manure
	Others if any:	e waste will be handover to authorized e waste Vendor
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	Location on ground, Total Area: 55 sq m
	Area for machinery:	Total Area: 55 sq m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	23.79 L
	O & M cost:	4.00 L

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	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 :**	1558.08 Sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	296
	List of proposed native trees :	Refer Below list
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	BAKUL	MIMUSOPS ELENGI	12	SHADY TREE, SMALL WHITE FRAGRANT FLOWER
2	KADAMBA	NEOLAMARCKIA CADAMBA	15	FRUIT BEARING TREE ATTRACTS BIRDS
3	INDIAN BEECH	PONGAMIA PINNATA	16	GOOD MEDICINAL USE
4	RAKTA KANCHAN	BAUHINIA PURPURIA	12	FRAGRANT FLOWERS OR LEAVES PLANT FOR POOJA EVERGREEN TREE
5	SONCHAPA	MICHELLIA CHAMAPAKA	15	FLOWER BUTTERFLY HOST PLANT MEDIUM SIZE EVERGREEN TREE , FRAGRANT YELLOW
6	JARUL	LAGERSTROMIA FLOSREGINA	16	CREATES SHADE ATTRACTS BIRDS/BUTTERFLIES/BEES GOOD FOR SCREENING
7	SHIRISH	ALBIZIA LEBBECK	20	FRAGRANT FLOWERS OR LEAVES ATTRACTS BIRDS/BUTTERFLIES/BEES DROUGHT TOLERANT
8	MANGO	MANGIFERA INDICA	18	TALL EVERGREEN TREE WITH FRUIT BEARING
9	JACKFRUIT	ARTOCARPUS HETEROPHYLLUS	16	TALL EVERGREEN TREE WITH FRUIT BEARING
10	JAMUN	SYZYGIUM CUMINI	16	TALL EVERGREEN TREE WITH FRUIT BEARING
11	SITA ASHOK	SARACA INDICA	14	FRAGRANT FLOWERS OR LEAVES ATTRACTS BIRDS/BUTTERFLIES/BEES DEEP-GREEN, SHINY FOLIAGE
12	PALAS	BUTEA MONOSPERMA	16	FRAGRANT FLOWERS OR LEAVES FLOWERS COVERING THE ENTIRE CROWN PLANT FOR POOJA
13	NEEM	AZADIRECHTA INDICA	11	PLANT FOR POOJA/EVERGREEN FRAGRANT FLOWERS OR LEAVES QUICK GROVING/INSECT REPELLENT
14	KHAYA	KHAYA GRANDIS	6	EVERGREEN TREE

15	GOLDEN SHOWER	CASSIA FISTULA	11	AUSPICIOUS ATTRACTS BIRDS/BEES/BUTTERFILES HANGING OR WEEPING GROWTH
16	MAHARUKH	AILANTHUS EXCELASA	12	TALL EVERGREEN TREE
17	APTA	BAUHINIA RACEMOSA	16	SHADY TREE, SMALL WHITE FRAGRANT FLOWER
18	ASHOK	POLTALTHIA LONGIFOLIA	9	ORNAMENTAL TREE
19	KAILASHPATI	KAILASHPATI COUROUPITA	8	EVERGREEN TREE WITH FRUIT BEARING
20	PUTRANJIVA	PUTRANJIVA ROXBURGHI	12	EVERGREEN TREE WITH MEDICINAL USE
21	PARIJAT	NYCTANTHES ARBOR-TRISTIS	8	SMALL FLOWERING TREE
22	CHAPHA	PULMERIA ALBA	10	EVERGREEN TREE WITH FRAGRANT FLOWERS
23	SUPARI PALMS	ARECA CATECHU	7	ORNAMENTAL NUTTY TREE
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30kW
	DG set as Power back-up during construction phase	40 KVA
	During Operation phase (Connected load):	2222 kW
	During Operation phase (Demand load):	1004 kW
	Transformer:	2 Nos. X 630 KVA
	DG set as Power back-up during operation phase:	1 x 200 KVA - FOR Residential & commercial 1 x 82.5 KVA FOR MHADA BUILDING
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Measures to reduce energy consumption :

? Generally we have proposed high efficiency transformer, motors etc. to reduce losses.

? Electronic Ballasts and Energy efficient lamp source either triposphere or LED are proposed for common area & general lighting with automatic time based control to save power by switching ON & OFF the lights at appropriate time. The estimated saving in common lighting consumption is up to 20 % due to adopting above measures.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total of all Savings for (per year)	294583 KWH / Annum

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	69.00 L
	O & M cost:	1.4 L/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	Erosion control, dust suppression measures, top soil preservation	16,06,250 /-
2	Land	Labour camp toilets & sanitation	4,80,000/-
3	Health and safety	Labour safety & training	4,00,000/-
4	Health and safety	Health check up & disinfection	51,000/-
5	Environment Management	Environment management cell	1,70,000/-
6	Environmental Monitoring (Per Year)	Air, Water, Noise, Soil, DG set	1,82,500/-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	STP	106.78	16.80
2	Organic waste management	OWC Machine	23.79	4.00
3	Landscaping	Development and Maintenance	35.00	4.00
4	Rain water harvesting	Recharge pits Recharge Shafts	7,75	0.89
5	Energy	Hot Water , PV panels for Street Light	69.00	1.4
6	Environment Monitoring	Air,water,Noise,soil,owc manure,DG,Treated water	-	1.85

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The site is located in Punawale Area. The development will be accessible from 18m wide road while the internal driveways are 6 m
Parking details:	**Number and area of basement:**	1 basements proposed
	Number and area of podia:	NA
	Total Parking area:	10230.09
	Area per car:	12.5 sq m
	Area per car:	12.5 sq m
	Number of 2-Wheelers as approved by competent authority:	1092
	Number of 4-Wheelers as approved by competent authority:	275
	Public Transport:	NA
	Width of all Internal roads (m):	Min 6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8a
	Court cases pending if any	NA
	Other Relevant Informations	NA

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEIAA decision above.

Agenda for 91st SEAC-3 Meeting day 02

SEAC Meeting number: 91 **Meeting Date** July 25, 2019

Subject: Environment Clearance for proposed Residential and Commercial project, at S.No. 162/3A/1, 162/3A/1A/2, 162/3B/1, 162/3B/2, 162/3B/1/1/2, 162/3B/1/2/2, Village Aundh, Tal. Haveli, Dist. Pune by M/s. Nikhil Development Corporation.

Is a Violation Case: No

1.Name of Project	proposed Residential and Commercial project, at S.No. 162/3A/1, 162/3A/1A/2, 162/3B/1, 162/3B/2, 162/3B/1/1/2, 162/3B/1/2/2, Village Aundh, Tal. Haveli, Dist. Pune by M/s. Nikhil Development Corporation.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Nikhil Himatlal Bhalja
4.Name of Consultant	Vke: Environmental LLP, Pune.
5.Type of project	Residential and Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 162/3A/1, 162/3A/1A/2, 162/3B/1, 162/3B/2, 162/3B/1/1/2, 162/3B/1/2/2,
9.Taluka	Haveli
10.Village	Aundh
Correspondence Name:	Mr. Nikhil Himatlal Bhalja
Room Number:	--
Floor:	--
Building Name:	2, Raghuwansh Apartment
Road/Street Name:	940/4, Model Colony
Locality:	Shivaji nagar
City:	Pune
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: 00
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	7,562.00
16.Deductions	Road widening area- 328.31 sq.m. and RFD- 2,244.00 sq.m.
17.Net Plot area	4,989.69
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 18926.83
	b) Non FSI area (sq. m.): 23786.18
	c) Total BUA area (sq. m.): 42713.00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2459.91
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.3 %
21.Estimated cost of the project	1014500000.00

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Tower 1	2B+Stilt+9	28.50
2	Tower 2	2B+Stilt+9	28.50
3	Tower 3	2B+G+10	31.80
4	EWS	2B+G+8	30.00
5	Commercial	2B+G+8	30.00

23.Number of tenants and shops	Residential- 183 no of flats, Commercial- 60 nos of offices and 12 nos of shops
24.Number of expected residents / users	Residential- 915 persons Commercial- 1005 Nos., Total -1920
25.Tenant density per hectare	241
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 road from the nearest fire station to the project. Nearest fire station: Aundh Fire Station- 1.3 Km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	For easy access of fire tender 9 m turning radius will be provided
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	110.0
	Recycled water - Flushing (CMD):	62.0
	Recycled water - Gardening (CMD):	6.0
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	178.0
	Fire fighting - Underground water tank(CMD):	150.0 and 100.0
	Fire fighting - Overhead water tank(CMD):	10.0
	Excess treated water	71.0
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	110.0
	Recycled water - Flushing (CMD):	62.0
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	172.0
	Fire fighting - Underground water tank(CMD):	150.0 and 100.0
	Fire fighting - Overhead water tank(CMD):	10.0
	Excess treated water	77.0
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Avg 7.30m to 8.70m below ground level
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	4
	Size of recharge pits :	3m x 3m x 3m
	Budgetary allocation (Capital cost) :	Rs. 8,00,000.00 /-
	Budgetary allocation (O & M cost) :	Rs. 60,000.00 /-
	Details of UGT tanks if any :	Fire- 150 cum & 100 cum Drinking & Domestic- 81.12 cum, 42.90 cum & 9.60 cum
35.Storm water drainage	**Natural water drainage pattern:**	The storm water drainage will be designed according to contours
	Quantity of storm water:	0.01395 m3/sec
	Size of SWD:	0.4 m diameter
Sewage and Waste water	**Sewage generation in KLD:**	154.0
	STP technology:	MBBR
	Capacity of STP (CMD):	2 Nos 125 KLD & 50 KLD
	Location & area of the STP:	On ground. 104.58 sq mt.
	Budgetary allocation (Capital cost):	Rs. 66,74,000.00 /-
	Budgetary allocation (O & M cost):	Rs. 16,64,000 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	20 kg/day (Wet- 12 kg/day & Dry- 8 kg/day)
	Disposal of the construction waste debris:	The maximum construction waste will be used within the site for leveling purposes and base course preparation of internal approach roads
Waste generation in the operation Phase:	**Dry waste:**	333.75 kg/day
	Wet waste:	375.00 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	35.0 kg/day
	Others if any:	E-waste- 1463 kg/year

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycle for further handling & disposal purpose
	Wet waste:	Wet waste will be treated in on-site organic waste converter machine
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	Handed over to authorized recycle for further handling & disposal purpose
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	Included in machine area
	Area for machinery:	45 Sq m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 25,03,000.00 /-
	O & M cost:	Rs. 5,46,000.00 /-

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 :**	499.71 Sq.Mt
	No of trees to be cut :	00
	Number of trees to be planted :	70
	List of proposed native trees :	As below
	Timeline for completion of plantation :	Till completion of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygium cumini	Jambhul tree	5	A large size tree with dense foliage provides shade along roads, wood is water resistant and attracts a variety of birds
2	Millingtonia hortensis	Indlan cork tree	6	A columnar, evergreen tree,grows well in both dry and moist region
3	Lqgerstromia flos-reglneae	Tamhan	5	State flower tree of Maharashtra, medium size tree, beautiful purple flowers, grows well in both dry humid climate
4	Pongamia pinnata	Karanj	6	Large tree good for stopping soil erosion along canal banks
5	Azadirachta indica	neem	6	A medium tom large size hardy tree which stand in drought condition. Air purifying quality attain a much larger size in dry regions
6	Cassia fistula	Bahava	2	Small deciduous tree. Excellent bright flowering tree for arid regions.
7	Ficus benjamina	Weeping flg	5	Medium sized evergreen tree with elegant appearance and moderate water requirement
8	Plumeria alba	Champa	5	Ornamental flowering tree
9	MIchelia champaca	Sonchapha	7	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
10	Polyalthia longifolia	Ashoka	4	Large evergreen tree effective in decreasing noise pollution.
11	Manglfera Indica	Mango	4	Large evergreen and fruit bearing tree
12	Alnizia lebeck	Shirish	4	Shady, large tree, ball shaped flowers
13	Psidium guajava	Guava	6	Medium sized fruit bearing tree
14	Annona squamosa	Sitaphal	5	Medium sized fruit bearing tree
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Raphis Palm	0.60	15.38
2	Allamanda yellow	0.45	3.50
3	Asparagus sprengeri	0.30	8.06
4	Ixora red	0.30	3.93

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	82.5 KVA
	During Operation phase (Connected load):	3150 KVA
	During Operation phase (Demand load):	2723.78 KVA
	Transformer:	5 nos 630 KVA each
	DG set as Power back-up during operation phase:	1 no 320 KVA and 1 no 600 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Annual saving with energy equipment 45.66 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving by Elecrtonic V3F drive for Lifts,Energy Saving by Solar System,Street Light on the Bldg,Street Light on the Bldg, Street Light on the Bldg, LED Lamp & Fitting For Common Areas i.e. Bldg.,Bollard Lighter - Light Fitting For Landscape Area,Up Lighter - Light Fitting For Landscape Area, Parking, Staircase, Passage & Terrace Floor.Solar Street Light Fitting - Pole Light On Road Side,	45.66 %

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:**	NA
	O & M cost:	NA

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	6.37
2	Land	Labour Camp toilets & sanitation	4.8
3	Health and Safety	Labour Safety Equipments and training	4.0
4	Health facility	Disinfection and Health Check-ups	0.66
5	Environment Management	Environment management cell	1.75
6	Environment Management	Environmental Monitoring	1.85

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	STP with MBBR Technology	66.74	16.64
2	Solid Waste Management	OWC	23.03	5.46
3	Landscaping	Development and Maintenance	2.52	0.25
4	Rain Water Harvesting	Recharge pits with bore well	8.0	0.60
5	Energy Saving	Energy Saving equipments	73.80	1.45
6	Environmenal Monitoring	---	00	1.82

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Proposed site is located at Aundh. The road network within the site has been deigned to cater to the traffic loads of the project
Parking details:	**Number and area of basement:**	2 No of Basement, Area- 10796.72 sq. mt.
	Number and area of podia:	NA
	Total Parking area:	6510.07 sq mt
	Area per car:	12.5 sq. mt.
	Area per car:	12.5 sq. mt.
	Number of 2-Wheelers as approved by competent authority:	657
	Number of 4-Wheelers as approved by competent authority:	363
	Public Transport:	Yes, Existing public transport present up to project site
	Width of all Internal roads (m):	Width of all Internal roads: 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) Building & construction project.
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 7,562 m2, FSI area of 18926.83 m2, Non FSI area of 23786.18 m2 and total BUA of 42713.00 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 90th meeting of SEAC-3.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 meeting day 03

SEAC Meeting number: 91 **Meeting Date** July 26, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership-Madhuvan 4, Survey No. 76(part), Plot No. 76B, Mohmadwadi, Tal- Haveli, Dist- Pune, State - Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 4
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey No. 76(part), Plot No. 76B - Madhuvan 4, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road.
Locality:	Off East Street
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 32670.90
13.Note on the initiated work (If applicable)	-
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	20000.00
16.Deductions	6871.20
17.Net Plot area	13128.80
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 32670.90
	b) Non FSI area (sq. m.): 10765.45
	c) Total BUA area (sq. m.): 43436.35
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2565.30
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.61
21.Estimated cost of the project	789100000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A, Number of Building: 1	Stilt Parking +11	35.25 m
2	Building B to F, Number of Building: 5	Stilt Parking +14	43.95 m

23.Number of tenants and shops	Total Tenants: 961
24.Number of expected residents / users	4805
25.Tenant density per hectare	2529
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6-9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	432.45
	Recycled water - Flushing (CMD):	216.23
	Recycled water - Gardening (CMD):	7.69
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	656.37
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120 m3 (20 m3 x 6 bldgs)
	Excess treated water	330.70
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	432.45
	Recycled water - Flushing (CMD):	216.23
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	648.68
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120 m3 (20 m3 x 6 bldgs)
	Excess treated water	338.40
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	648.68	648.68	Not applicable	64.86	64.86	Not applicable	583.80	583.80

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2.75 m X 1m X 1.5 m
	Budgetary allocation (Capital cost) :	2.00 lakh
	Budgetary allocation (O & M cost) :	0.30 lakh/year
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.14 m3/sec
	Size of SWD:	200 mm to 400 mm dia RCC Hume pipe
Sewage and Waste water	**Sewage generation in KLD:**	584
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of Capacity - 613 KLD
	Location & area of the STP:	Near Building A at the right top corner of plot Area : 325 sq.m
	Budgetary allocation (Capital cost):	116.76 lakh
	Budgetary allocation (O & M cost):	38.36 lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	211 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	961 kg/day
	Wet waste:	1442 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	58 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	18 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 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	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	17	17	Used Oil will be handled by authorized service provider

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1 x 160 kVA	HSD, 37 Liters/Hr	1	13	0.1	350 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	37 Liters /Hr	37 Liters /Hr
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

43.Green Belt Development	**Total RG area :**	1632.80 sq. m.
	No of trees to be cut :	9
	Number of trees to be planted :	192
	List of proposed native trees :	192
	Timeline for completion of plantation :	Till Project Completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	3	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	3	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	3	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Pandhra siris	3	Fast growing native tree. Fragrant flowers.
7	Gmelina arborea	Gamhar/ Shivan	3	Good for plantation for restoration. Beautiful yellow flowers
8	Heterophragma quadriloculare	Waras	3	Tree looks beautiful with bunches of white flowers.
9	Lagerstroemia thorelli & speciosa	Tamhan	5	Flowering tree with beautiful violet flowers, Butterfly larval host plant.
10	Melia dubia	Limbara	3	Tall straight growing tree, fresh foliage in summer
11	Michelia champaca	Son Chapha/ champa	10	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
12	Mitragyna parvifolia	Kalam	5	It is larval host for butterfly commander. Good shady tree.
13	Pongamia pinnata	Honge Tree, Pongam Tree	2	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
14	Pterospermum acerifolium	Muchkund	4	Fragrant large flowers, sunbirds frequently seen. Beuatidul foliage.
15	Terminalia arjuna	Arjun Tree	7	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.

16	Mimusops elengi	Bakul	9	Evergreen tree with beautiful fragrant flowers. Good for shade.
17	Saraca asoca	Sita Ashok	7	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
18	Holarrhena antidysenterica	Pandhara kuda	18	Shrub with beautiful white fragrant flowers. Medicinal.
19	Woodfordia fruticosa	Dhayati	18	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
20	Wrightia tinctoria	Kala kuda	18	Fragrant white flowers. Medicinal tree.
21	Anogeisus latifolia	Dhawda	2	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
22	Azadirachta indica	Neem Tree	5	Fast growing, medicinal tree. Religiously important tree.
23	Baringtonia acutangula	Indian oak	5	Good foliage, beautiful red hanging flowers. Planted for shade and beautification.
24	Bauhinia purpurea	Kanchan	5	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
25	Bombax ceiba	Indian silk cotton tree	2	Tree with Good foliaage and beuatiful red flowers. Flowers are full with nectar which attracts many species of birds.
26	Butea monosperma	Palas	5	Beautiful scarlet flowers, attract many birds. Used in afforestation of saline and waterlogged regions.
27	Cassia fistula	Golden Shower/ Amaltas	5	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
28	Crataeva adansonii	-	5	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
29	Dalbergia sissoo	Sisoo	5	Fast growing tree. Larval host for butterfly Black Rajah.
30	Dillenia indica	Mota karmal	2	Showy big leaves. Fruits are sour, food value
31	Erythrina stricta	Pangara	5	Fast growing. Beautiful red flowers. Attracts lot of birds during flowering.
32	Holoptelea integrifolia	Indian Elm	5	Good shade tree for summer. Pods are edible.
33	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	10	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.
34	Thespesia populnea	Indian Tulip Tree/ Bhendi	5	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.

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 :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	2158 kW
	During Operation phase (Demand load):	1641 kW
	Transformer:	3 x 630 kVA
	DG set as Power back-up during operation phase:	160 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 214 kW
2. Water Heating: 26 kW
3. Common Area Lighting: 14 kW
4. External / Landscape Area Lighting: 92 kW
5. Parking (Basement + Stilt) Area Lighting: 25 kW
6. Plumbing, Fire, Equipment & Ventilation: 28 kW
7. Lifts & Escalators: 9 kW

Total Energy Saving: 19.93 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	10.44
2	Water Heating	1.27
3	Common Area Lighting	0.68
4	External / Landscape Area Lighting	4.49
5	Parking (Basement + Stilt) Area Lighting	1.22
6	Plumbing, Fire, Equipment & Ventilation	1.37
7	Lifts & Escalators	0.44

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage treatment plant – 584 CMD capacity
Biodegradable Waste	Not applicable	Organic Waste Converter (OWC)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	131.76 lakh
	O & M cost:	39.86 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	Mobile toilets with/ without STP	No. 10 of units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, Acoustic enclosures, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	116.76	38.36
2	Rain water harvesting	Ground Water Recharge	2.00	0.30
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater	87.45	0.87
5	Gardening	Green Belt Development	18.46	1.85
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	136.48	27.30

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	3430.60
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 1009, Cycles - 2018
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	26-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 20000.00 m2, FSI area of 32670.90 m2, Non FSI area of 10765.45 m2 and total BUA of 43436.35 m2.

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

PP has submitted 5 more applications for grant of prior environmental clearance vide SEIAA-STATEMENT numbers - 3150, 3156, 3159, 3166 and 3168, on contagious plot adjacent to plot under reference of this proposal. It was also observed that the total built up area of all six proposals exceeds 1,50,000 m2.

The Committee, in its 88th meeting has decided that PP shall refer model TOR available on the web site of MoEF&CC and carry out environmental impact assessment studies considering total area of all aforesaid plots and submit a common report. Accordingly, PP has submitted and presented EIA report.

DECISION OF SEAC

During discussion following points emerged:

1. In CER, PP to explore possibility of urban plantation in Government land wherein indigenous plant of higher age group shall be planted.

2. PP to submit disaster management plan for individual proposal incorporating disaster management committee during operation and after completion of project. PP also to submit budgetary details.

3. Fire tender drive way shall be separately marked throughout the plot with 6 m clear width. PP to submit lateral and longitudinal cross section of the same.

4. Even though as per DC Rules only two wheeler and bicycle parkings are require, a few car parking shall be provided wherever possible.

5. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per vehicle as per norms.

6. Traffic Impact Study needs to be revised taking inputs from all 6 sectors together on the proposed 30 m wide road. Today on 12 m wide road exists and has junctions with Hadapsar road on east side and the west side of the Sasane Road, which needs to be surveyed. PP to submit detailed topographical plan of both the intersections of the road.

7. Traffic projection for each sector shall be tabulated together and combined V/C ratio for the total development shall be prepared for 5, 10 and 15 years.

8. PP to submit site specific EMP giving details of Environment Management Committee initially and thereafter if societies are formed and handed over.

9. PP to extend all RW recharge bores upto 60 m.

10. PP to submit details and drawings of internal storm water and sewer line up to final disposal point with invert levels of last chamber.

11. PP to submit details of recharge pits separately for rain water from terrace and from surface.

12. PP to submit RG plan with detailed calculations regarding RG area on virgin land.

13. PP to submit survival report of existing trees. PP to submit undertaking for retaining of existing trees and transplantation of trees if any.

14. PP to submit plantation plan incorporating local native fruit bearing trees.

15. PP to submit undertaking for compensatory plantation as per MoEFCC guidelines.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 meeting day 03

SEAC Meeting number: 91 **Meeting Date** July 26, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership-Madhuvan 2" located at Survey No.77 Mohmadwadi, Tal- Haveli, Dist- Pune, State- Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 2
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 77, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road
Locality:	Off East Street
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 37617.02
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	18500.00
16.Deductions	3189.24
17.Net Plot area	15310.76
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 37617.02
	b) Non FSI area (sq. m.): 12282.00
	c) Total BUA area (sq. m.): 49899.00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2858.30
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.66
21.Estimated cost of the project	832500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A to G, Number of Buildings-7	Stilt Parking+14	43.95

23.Number of tenants and shops	Tenants: 1106
24.Number of expected residents / users	5530
25.Tenant density per hectare	2989
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6-9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	497.70
	Recycled water - Flushing (CMD):	248.85
	Recycled water - Gardening (CMD):	10.81
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	757.36
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	140 m3 (20 m3 x 7 bldgs)
	Excess treated water	378.64 m3
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	497.70
	Recycled water - Flushing (CMD):	248.85
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	746.55
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	140 m3 (20 m3 x 7 bldgs)
	Excess treated water	389.45 m3
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	746.55	746.55	Not applicable	74.65	74.65	Not applicable	671.90	671.90

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2.75 m X 1m X 1.5m
	Budgetary allocation (Capital cost) :	2.0 lakh
	Budgetary allocation (O & M cost) :	0.3 lakh/year
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.16 m3/sec
	Size of SWD:	200 mm to 450 mm RCC Hume Pipe
Sewage and Waste water	**Sewage generation in KLD:**	672
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	705
	Location & area of the STP:	Near Building B at the corner of Amenity Space Area : 400 sq.m
	Budgetary allocation (Capital cost):	134 lakh
	Budgetary allocation (O & M cost):	44 lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Concrete Waste: 243 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	1106 kg/day
	Wet waste:	1659 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	67 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	18 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 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	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	20	20	Used Oil will be handled by authorized service provider

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1× 180 KVA	HSD - 48 Liters/H	1	13	0.125	400 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	48 Liters/H	48 Liters/H
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

43.Green Belt Development	**Total RG area :**	1,801.26
	No of trees to be cut :	3
	Number of trees to be planted :	203
	List of proposed native trees :	203
	Timeline for completion of plantation :	Till the Project Completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	3	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	3	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting.
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	4	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Pandhra siris	4	Fast growing native tree. Fragrant flowers.
7	Gmelina arborea	Gamhar/ Shivan	6	Good for plantation for restoration. Beautiful yellow flowers.
8	Heterophragma quadriloculare	Waras	6	Tree looks beautiful with bunches of white flowers.
9	Lagerstroemia thorelli & speciosa	Tamhan	7	Flowering tree with beautiful violet flowers, Butterfly larval host plant.
10	Melia dubia	Limbara	3	Tall straight growing tree, fresh foliage in summer
11	Michelia champaca	Son Chapha/ champa	14	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
12	Mitragyna parvifolia	Kalam	7	It is larval host for butterfly commander. Good shady tree.
13	Pongamia pinnata	Honge Tree, Pongam Tree	7	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
14	Terminalia arjuna	Arjun Tree	7	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.
15	Mimusops elengi	Bakul	7	Evergreen tree with beautiful fragrant flowers. Good for shade.

16	Saraca asoca	Sita Ashok	7	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
17	Holarrhena antidysenterica	Pandhara kuda	27	Shrub with beautiful white fragrant flowers. Medicinal.
18	Woodfordia fruticosa	Dhayati	20	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
19	Wrightia tinctoria	Kala kuda	20	Fragrant white flowers. Medicinal tree.
20	Anogeisus latifolia	Dhawda	2	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
21	Azadirachta indica	Neem Tree	2	Fast growing, medicinal tree. Religiously important tree.
22	Baringtonia acutangula	Indian oak	2	Good foliage, beautiful red hanging flowers. Planted for shade and beautification.
23	Bauhinia purpurea	Kanchan	2	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
24	Bombax ceiba	Indian silk cotton tree	2	Tree with Good foliaage and beuatiful red flowers. Flowers are full with nectar which attracts many species of birds.
25	Butea monosperma	Palas	2	Beautiful scarlet flowers, attract many birds. Used in afforestation of saline and waterlogged regions.
26	Cassia fistula	Golden Shower/ Amaltas	5	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
27	Crataeva adansonii	-	2	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
28	Dalbergia sissoo	Sisoo	5	Fast growing tree. Larval host for butterfly Black Rajah
29	Dillenia indica	Mota karmal	2	Showy big leaves. Fruits are sour,food value
30	Erythrina stricta	Pangara	2	Fast growing. Beautiful red flowers. Attracts lot of birds during flowering.
31	Ficus bengalensis	Wad	1	Larval host for butterflies like common Indian crow. Fruiting trees attract lot of birds. Ecologically important tree species. Medicinal.
32	Holoptelea integrifolia	Indian Elm	5	Good shade tree for summer. Pods are edible.
33	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	10	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.

34	Thespesia populnea	Indian Tulip Tree/ Bhendi	5	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.
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 :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	2484 kW
	During Operation phase (Demand load):	1890 kW
	Transformer:	3 x 630 kVA
	DG set as Power back-up during operation phase:	1 × 180 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 283 kW
2. Water Heating: 23 kW
3. Common Area Lighting: 23 kW
4. External / Landscape Area Lighting: 122 kW
5. Parking (Basement + Stilt) Area Lighting: 54 kW
6. Plumbing, Fire, Equipment & Ventilation: 25 kW
7. Lifts & Escalators: 11 kW
Total Saving: 22.24 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	11.64
2	Water Heating	0.95
3	Common Area Lighting	0.95
4	External / Landscape Area Lighting	5.02
5	Parking (Basement + Stilt) Area Lighting	2.22
6	Plumbing, Fire, Equipment & Ventilation	1.03

7	Lifts & Escalators	0.45

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	NA	Sewage treatment plant – 705 CMD capacity
Biodegradable Waste	NA	Organic Waste Converter

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	149 lakhs
	O & M cost:	45.5 lakhs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Mobile toilets with/ without STP	No. of 10 units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, Acoustic enclosures, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	134	44
2	Rain water harvesting	Ground Water Recharge	2.0	0.30
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater	101	1.00
5	Gardening	Green Belt Development	21.16	2.16
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	148.90	29.78

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	3948.10 sq. m.
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 1161, Bicycles - 2323
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	22-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

PP has submitted 5 more applications for grant of prior environmental clearance vide SEIAA-STATEMENT numbers - 3150, 3164, 3159, 3166 and 3168, on contagious plot adjacent to plot under reference of this proposal. It was also observed that the total built up area of all six proposals exceeds 1,50,000 m2.

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DECISION OF SEAC

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7. Traffic projection for each sector shall be tabulated together and combined V/C ratio for the total development shall be prepared for 5, 10 and 15 years.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 meeting day 03

SEAC Meeting number: 91 **Meeting Date** July 26, 2019

Subject: Environment Clearance for Proposed Commercial development Project namely Bramha Sky Uzuri by Bramha leisures Pvt.Ltd.

Is a Violation Case: No

1.Name of Project	BRAMHA SKY UZURI
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vishal Agarwal
4.Name of Consultant	Building Environment India Pvt. Ltd.
5.Type of project	Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Sr.No. 209/A/2
9.Taluka	Haveli
10.Village	Pimpri
Correspondence Name:	Bramha Leisures Pvt.Ltd.
Room Number:	NA
Floor:	1st
Building Name:	250-251, Bramha House
Road/Street Name:	M.G.Road
Locality:	Camp
City:	Pune
11.Whether in Corporation / Municipal / other area	PCMC
12.IOD/IOA/Concession/Plan Approval Number	Sanctioned from PCMC
	IOD/IOA/Concession/Plan Approval Number: BP/Layout/Pimpri/ENV/1/2018 Dated 04/10/2018
	Approved Built-up Area: 54667.89
13.Note on the initiated work (If applicable)	Work initiated below 20000 sq.m., withdrawal of Violation Letter from Govt. of Maharashtra vide letter no. SEAC-2013/CR-449/TC-2 DT. 10/03/2015
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	7729.66 Sq.M.
16.Deductions	0
17.Net Plot area	7729.66 Sq.M.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 21689.80
	b) Non FSI area (sq. m.): 32969.09
	c) Total BUA area (sq. m.): 54667.89
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 21689.80
	Approved Non FSI area (sq. m.): 32969.09
	Date of Approval: 04-10-2018
19.Total ground coverage (m2)	3881.71
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50.2 % of net plot area
21.Estimated cost of the project	1326800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	3 B+GF+UG+10 Floor	38.25
2	Wing B	3B+LG+UG+11 Floor	39.95
3	Wing C	3B+LG+UG+11 Floor	39.95
4	Club House	G+1	6.65

23.Number of tenants and shops	Wing A & B – 274 Nos. Office and 44 Nos. Shops and Wing B – 2 Nos. Restaurant Wing C – 131 Nos. Rooms, 2 Nos. Restaurant & 5 Nos. Banquets
24.Number of expected residents / users	Shops & Offices – 2533 Nos., Restaurants – 1024 Nos., Service Rooms – 262 Nos. Total - 3819 Nos.
25.Tenant density per hectare	5520.29
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	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	195.770
	Recycled water - Flushing (CMD):	73.735
	Recycled water - Gardening (CMD):	12
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	269.505
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	60
	Excess treated water	132.564
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	195.770
	Recycled water - Flushing (CMD):	73.735
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	269.505
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	60
	Excess treated water	144.565
Details of Swimming pool (If any)	C wing- swimming pool(6.81 x 9.35)+ jaccuzi (6.29 x 4.00) + kids pool(6.29 x 4.00) at fourth floor The average depth of Swimming Pool: 1) Main pool of C-Wing 750mm 2) Kids pool 600mm and 3) Main pool of Open Space 1200mm	

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:**	12 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6
	Size of recharge pits :	3 m x 2 m x 3 m
	Budgetary allocation (Capital cost) :	12 Lacs
	Budgetary allocation (O & M cost) :	0.3 Lacs/yr.
	Details of UGT tanks if any :	1 no. for Wing A & B 380.637 KLD 1 no. for Wing C 439.620 KLD.
35.Storm water drainage	**Natural water drainage pattern:**	East To West
	Quantity of storm water:	26 m3
	Size of SWD:	600 mm x 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	242.555
	STP technology:	MBBR TECHNOLOGY
	Capacity of STP (CMD):	2 NOS. 1 FOR Wing A & B - 110 KLD AND 1 FOR Wing C -140 KLD
	Location & area of the STP:	Near Wing C , Area - 130 Sq.m.
	Budgetary allocation (Capital cost):	86.05 Lacs
	Budgetary allocation (O & M cost):	22.75 Lacs/yr.
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total excavation generated during pre construction and construction phase - 78961 Cum out of which reused at site 10156 Cum and remaining 68805 Cum handed over to Authorized vendor
	Disposal of the construction waste debris:	Construction waste includes waste concrete, excavated soil, broken bricks, waste plaster, metallic scrap etc. Construction debris will be used for base course preparation and excess will be hand over to Autorized vendor
Waste generation in the operation Phase:	**Dry waste:**	739 Kg/day
	Wet waste:	793 Kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	33 Kg/day
	Others if any:	E-Waste - 3688 kg/year

Mode of Disposal of waste:	**Dry waste:**	Collected & Disposed by local body (swach)
	Wet waste:	Treated in organic waste composting and used as manure.
	Hazardous waste:	Send to Authorized vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure for gardening purposes
	Others if any:	NA
Area requirement:	**Location(s):**	Near Wing C
	Area for the storage of waste & other material:	27.3 Sq.M.
	Area for machinery:	46.2 Sq.M.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	27.50 Lacs
	O & M cost:	5.9 Lacs/yr.

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	1695.39 Sq.M.
	No of trees to be cut :	0
	Number of trees to be planted :	78 Nos.
	List of proposed native trees :	78 nos.
	Timeline for completion of plantation :	2 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Nyctanthes Arbor-Tortis	Parijatak	5	Small deciduous fast growing, beautiful flowers.
2	Bahunia Variegata	Mountain Ebony	3	Flowering plant,Deciduous beautiful tree among all indian trees, rich and stimulating perfume.
3	Michellia Champaca	Sonchaffa	3	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
4	Anthocephalus Kadamba	Kadamba	4	Shady, large deciduous tree, fast growing graceful tree, ball shaped flowers.
5	Dalbergia Sisoo	Shisoo	3	Fast growing medium to large hardy deciduous rosewood.
6	Azadirakta Indica	Neem	2	Fast growing large tree, evergreen good for roadside plantation, draught resistant, shade giving tree.
7	Mangifera Indica	Mango	3	Flowering and Fruit growing tree, dense, nesting for avi fauna.. Suitable for all types of soil. Medium logging to water tolerence.
8	Cassia Fistula	Bahawa	3	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant.
9	Ailanthus Excelsa	Maharukh	3	Softwood tree. one of the best tree used to trap Suspended Particulate Matter (SPM)
10	Lagerstromia Speciosa	Tamhan	4	Medium sized Tree, Beatuful Purple flower
11	Ficus Microcarpa	Nandruk	4	Shady Tree
12	Syzygium cumuni	Jambhul	4	Evergreen, Slow growing
13	Murraya koenigii	Curry Leaves	4	Butterfly Host Plant
14	Phyllanthus emblica	Awala	5	Deciduous tree with edible fruits
15	Prunus dulcis	Almond	4	The base of various drinks which are supposed to have cooling properties.

16	Bombax ceiba	katesavar	5	Is an important medicinal plant of tropica
17	Tabobiya	Roble	7	Leaves are compound, digitate and deciduous. Each leaf has five leaflets of variable size, the middle one being the largest.
18	Delonix regia	Gulmohar	3	Gulmohar trees are mainly grown for shade an ornamental value.
19	Saraca asoka	Ashoka	2	Shady tree with red-yellow flowers
20	Total	-	78	-
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	200 kW
	DG set as Power back-up during construction phase	2 x 82.5 kVA
	During Operation phase (Connected load):	4681 kVA
	During Operation phase (Demand load):	3210 kVA
	Transformer:	3 x 630 kVA, 1 x 315 kVA, 1 x 1.5 MVA
	DG set as Power back-up during operation phase:	2 x 1010 kVA , 2 x 750 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- Using high efficient equipment & BEE Certified Motors for Water pumps
- Use of Variable speed drives for Lifts
- Use of CFL / T-5 Fittings & Electronic Ballast in Common area
- Use of LED Fittings in Lighting of lift lobby or passages
- Use of solar based lighting systems in common areas.
- Using VFD for Fan and pump for STP
- Using high efficient equipment & BEE Certified Motors for Basement ventilation
- Solar based Hot water systems

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	Solar Water Heating System, solar based lighting systems in common areas , CFL / T-5 Fittings & Electronic Ballast in Common area	48.63 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water generation from Proposed project	Not applicable	Proposed STP having capacity 110 KLD and 140 KLD with MBBR Technology
Wet Waste from the proposed project	Not applicable	Proposed 2 nos. OWC having capacity 500 and 375 kg/day

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

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	-	3
2	Site Sanitation & Safety	-	5
3	Environmental Monitoring	-	3
4	Drinking water facility	-	2
5	Personnel Protective Equipment & Health Checks-Ups	-	5
6	Total	-	18

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	-	12	0.3
2	STP	-	86.05	22.75
3	Landscape & Tree Plantation	-	30.17	4.82
4	Energy Saving	-	28	4.2
5	Solar Water Heating	-	22	3.3
6	Swimming Pool	-	63	9
7	Environmental monitoring	-	0	8
8	Organic waste composting	-	27.50	5.90
9	Total	-	268.72	58.27

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	3 Nos. 9544.03 Sq.M.
	Number and area of podia:	NA
	Total Parking area:	14885.65 Sq.M.
	Area per car:	Provided as per NBC
	Area per car:	Provided as per NBC
	Number of 2-Wheelers as approved by competent authority:	2176
	Number of 4-Wheelers as approved by competent authority:	263 + 100 (Mechanical parking)
	Public Transport:	NA
	Width of all Internal roads (m):	Min.6 M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category B
	Court cases pending if any	NA
	Other Relevant Informations	Withdrawal of Violation from Govt. of Maharashtra vide letter no. SEAC-2013/CR-449/TC-2 DT. 10/03/2015

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	30-06-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 7729.66 m2, FSI area of 21689.80 m2, Non FSI area of 32969.09 m2 and total BUA of 54667.89 m2.

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

However before finalising the minutes, Secretary of the committee brought to the notice that a Show Cause Notice was issued by the Environment Department u/s 5 of the Environment (Protection) Act, 1986 on 16.07.2019 .

DECISION OF SEAC

The hearing of the proposal before SEAC was on 26.07.2019. Though PP was in knowledge of this notice at the time of hearing, he did not disclose this information to the committee and misguided the committee.

As the act of PP is fraudulent, committee decided to keep the case in abeyance till the decision of the notice .After the decision of the SCN the case will be reappraised in the light of outcome of the SCN.

Committee also directs the Secretary of the committee to bring this fact to the notice of Hon Principal Secretary with a request to take stern action on account of concealing the material information at the time of appraisal.

With this, the proposal is ***deferred***.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 meeting day 03

SEAC Meeting number: 91 **Meeting Date** July 26, 2019

Subject: Environment Clearance for Application for EC - It building , Tech Mahindra Ltd. , Hinjewadi, Pune

Is a Violation Case: Yes

1.Name of Project	Tech Mahindra Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajesh Pillai
4.Name of Consultant	Not Required
5.Type of project	IT software building construction
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC- order bearing No. MoEF-21-1180/2007
8.Location of the project	Plot No. 1, Hinjewadi Phase III
9.Taluka	Mulashi
10.Village	Maan
Correspondence Name:	Mr. rajesh Pillai
Room Number:	207
Floor:	-
Building Name:	Satyam Building Waghere Height
Road/Street Name:	Behind Nav Maharashtra School
Locality:	Pimpari
City:	Pune
11.Whether in Corporation / Municipal / other area	MIDC, Hinjewadi Pune
12.IOD/IOA/Concession/Plan Approval Number	EE/IT/Plans?2844?2012 dated 06.08.2012
	IOD/IOA/Concession/Plan Approval Number: EE/IT/Plans?2844?2012 dated 06.08.2012
	Approved Built-up Area: 89077.4
13.Note on the initiated work (If applicable)	As per sanction
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	99235.00 sqm
16.Deductions	0
17.Net Plot area	99235.00 aqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 91541.48 sqm
	b) Non FSI area (sq. m.): 22387.85 aqm
	c) Total BUA area (sq. m.): 113929.33
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 91541.48 sqm
	Approved Non FSI area (sq. m.): 22387.85
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	32105.06
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	35%
21.Estimated cost of the project	3000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Software Block-1	Stilt+G+6	36.00m
2	Training Block	G+2	12.00m
3	Guest House	LG+G+2	24.95 m.
4	Software Block-3	G+5	24.95m
5	Nursery Store	Ground	3.60 m
6	Software Block-2	Stilt+G+6	36.00m
7	Cafeteria	LG+G+1	12.60m
8	Corporate Block	G+3	15.50m
9	Visitor Center	Ground	4.15m
10	Guard Room	Ground	3.40 m
11	Kitchen	G+1	8.45 m
12	D.G. Room	Ground	4.15m
13	Transformer	Ground	4.15m
14	Metering Kiosk	Ground	3.40m
15	Shed	Ground	3.45m
16	Block-4	Basement+G+3	20.45m

23.Number of tenants and shops	NA
24.Number of expected residents / users	Users 10060
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	60MT WIDE ROAD
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 mt
29.Existing structure (s) if any	As per previous EC & sanction plan construction is completed.
30.Details of the demolition with disposal (If applicable)	Nil

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MIDC, Hinjewadi
	Fresh water (CMD):	214
	Recycled water - Flushing (CMD):	202
	Recycled water - Gardening (CMD):	21
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	437
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	83.50
	Excess treated water	199
Wet season:	**Source of water**	MIDC, Hinjewadi
	Fresh water (CMD):	241
	Recycled water - Flushing (CMD):	181
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	416
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	83.50
	Excess treated water	199
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	688	241	929	Not applicable	Not applicable	Not applicable	551	181	732

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	12 m
	Size and no of RWH tank(s) and Quantity:	1
	Location of the RWH tank(s):	Near Block 4
	Quantity of recharge pits:	5
	Size of recharge pits :	2m x 2m x 2 m
	Budgetary allocation (Capital cost) :	8
	Budgetary allocation (O & M cost) :	2.25
	Details of UGT tanks if any :	Domestic UG tank capacity - 284 m3 Flushing UG tank capacity - 210 m3 Fire UG tank capacity - 300 m3
35.Storm water drainage	**Natural water drainage pattern:**	From South to North direction
	Quantity of storm water:	3669 m3
	Size of SWD:	600 m x 600m
Sewage and Waste water	**Sewage generation in KLD:**	423
	STP technology:	STP will be upgrade to 460 CMD to 770 CMD
	Capacity of STP (CMD):	1 no. 770 CMD
	Location & area of the STP:	Near Block 4
	Budgetary allocation (Capital cost):	194 lakh
	Budgetary allocation (O & M cost):	19.40 lack
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris
	Disposal of the construction waste debris:	Used for leveling
Waste generation in the operation Phase:	**Dry waste:**	1508.9 kg/Day
	Wet waste:	1005.9 kg/Day
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	38 Kg/day
	Others if any:	E waste generation - 12.75 Tons/Year

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recyclers
	Wet waste:	Treated in vermicomposting
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manuare
	Others if any:	E waste to authorized dealer
Area requirement:	**Location(s):**	Near Block 4
	Area for the storage of waste & other material:	49.02
	Area for machinery:	same as point 42 (ii)
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	19.66 lack
	O & M cost:	5 lack

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel for DG set	Not applicable	Not applicable	Not applicable
41.Source of Fuel		AUTHORISED VENDOR		
42.Mode of Transportation of fuel to site		Not applicable		

43.Green Belt Development	**Total RG area :**	41005.54
	No of trees to be cut :	nil
	Number of trees to be planted :	716
	List of proposed native trees :	Attached with form1, 1A
	Timeline for completion of plantation :	0

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	chapha	54	Evergreen
2	Terminda catappa	Jangli Badam	15	Deciduous & native
3	Amthocephalus Kadamba	Kadamba	08	Evergreen & Native
4	Peltophorum pterocarpum	copperpod	20	Fruit bearing
5	Delonix regia	Gulmohar	23	Evergreen
6	Tabebuia argentia	roble	61	Deciduos
7	spathodea campanulata	Pichkari	29	Exotic
8	alstonia scholaris	Saptaparni	23	Evergeen
9	michelia champaca	Son Chafa	19	Evergreen
10	callistemon lanceolatus	Bottle brush	52	Evergreen
11	Lagerstroemia speciosa	Queen Crape Myrtle	51	semi deciduous
12	erythrina indica	Pangara	10	deciduous
13	bauhinia purpurea	Kanchan	101	semi deciduous
14	Ficus benjamina	weeping fig	12	Evergreen
15	Araucaria heteophylla	Christmas tree	06	Evergreen
16	Carica Papaya	Papaya	06	Evergreen
17	Acrus Sapota	Chikoo	06	fruit bearing Evergreen
18	Punica granatum	pomegranate	02	fruit bearing
19	Grevelia robusta	Silver Oak	70	Evergreen
20	Syzygium Cumini	Jambul	01	fruit bearing
21	Terminalia	Ain	01	deciduous & native
22	Mutingea calabura	cherry	08	fruit bearing
23	Swietenia Mahogoni	American Mahogany	02	Evergreen
24	caryota urens	fish tail palm	87	Evergreen
25	Wodyetia sp	fox tail palm	19	Evergreen
26	Pritchardia sp	Pritchardia palm	06	Evergreen
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	0	0	0

47.Energy

Power requirement:	**Source of power supply :**	MIDC
	During Construction Phase: (Demand Load)	3 KW
	DG set as Power back-up during construction phase	500 kva x 1
	During Operation phase (Connected load):	9444 KVA
	During Operation phase (Demand load):	6048 KVA
	Transformer:	6150 KVA X 1 No, 3150 KVA X 1 No
	DG set as Power back-up during operation phase:	2000 KVA X 5 Nos., 500 KVA X 2 Nos.
	Fuel used:	Disel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar heating system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar heating system	3%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	460 CMD	770 CMD
vermicomposting	vermicomposting	vermicomposting

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	3 lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Erosion Control	Dust Supression	2.0
2	Site Sanitation & Safety	Nets	4.50
3	Site Sanitation & Safety	Nets	4.50

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	5 pits	8	2.25
2	Sewage Treatment Plant	upgradation of STP	194.00	19.40
3	Organic Waste Composting	vermicomposting	19.66	1.96
4	Tree Plantation	716 trees	184.00	33.23
5	Energy saving	solar water	15	3
6	Environment Monitoring	waste water air noise etc monitoring	3.0	4.0
7	Laying of Storm & Sewer line up to final disposal point	storm water mgmt	22.41	0.60

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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:	Nil
	Number and area of podia:	1
	Total Parking area:	22887
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	nil
	Number of 4-Wheelers as approved by competent authority:	1831
	Public Transport:	yes
	Width of all Internal roads (m):	6 mt
	CRZ/ RRZ clearance obtain, if any:	no
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	nil
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	No
	Other Relevant Informations	Existing EC dated 22.05.2009
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 99235 m2, FSI area of 91541.48 m2, Non FSI area of 22387.85 m2 and total BUA of 113929.33 m2.

Now, the PP has applied as per the MoEF&CC Notification dated 14/03/2017 and 8/03/2018.

DECISION OF SEAC

The proposal is appraised as category 8(a) B2. After deliberation, Committee hereby accords approval to the following Terms of Reference for undertaking Environment Impact Assessment (EIA) and preparation of Environment Management Plan (EMP) for further discussion and consideration of SEAC:

Terms of Reference for EIA and preparation of Environment Management Plan (EMP) for Violation Cases

1. **Project Description**

1. Project description, its importance and the benefits.

2. Project site details (location, topo-sheet of the study area of 10 Km, Coordinates, google map, layout map, land use, geological features and geo-hydrological status of the study area, drainage). Hydro-geological survey report with graphs & data.

3. Land use as per the approved Master Plan of the area, Permission/approvals required from the land owning agencies, Development Authorities, Local Body, Water supply & Sewerage Board, etc.

4. Land acquisition status, R & R details.

5. Forest and Wildlife and eco-sensitive zones, if any in the study area of 10 km. Any sensitive areas in impact zone such as archaeological structures, reserved forest, noise sensitive zones etc. Clearances required under the Forest (Conservation) Act, 1980, the Wildlife (Protection) Act, 1972 and/or the Environment (Protection) Act, 1986.

6. (G) High Tension wires if any on the plot.

7. (G) Plan showing HFL.

8. (G) Permissions granted by State Government in tabular and chronological form. Comparative statement of components approved and components constructed as per earlier EC (if applicable) and proposed development.

9. (G) PP to submit the detailed master plan indicating already completed construction and proposed construction. PP to submit the certificate from architect for completed work

2. **Base Line Data**

10. (B) Baseline environmental study for ambient air (PM_{10}, $PM_{2.5}$, SO_2, NO_x & CO),water (both surface and ground), noise and soil for one month (except monsoon period) as per MoEF&CC/CPCB guidelines at minimum 5 locations in the study area of 10 km. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory duly notified under the Environment (Protection) Act,1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.

11. (C) Detail on flora and fauna and socio-economic aspects in the study area. Details of tree cutting, tree transplantation and survival report of existing trees.

12. (C) Likely impact of the project on the environmental parameters (ambient air surface and ground water, land, flora and fauna and socio-economic, etc.)

13. (B) Source of water for different identified purposes with the permissions required from the concerned authorities, both for surface water and the ground water (by CGWA) as the case may be, Rain water harvesting, etc.

14. (G) Socio-economic infrastructure details including public transport arrangements on the site; PP to mention details of socio-economic in EIA.

15. (G) PP to submit contour map with slopes, drainage pattern of the site and surrounding area. Layout showing natural water courses on site; total runoff calculation before and after development.

16. (C) PP to submit details of existing trees, proposed to be cut, proposed to be transplanted along with tree survival report

3. **Traffic Impact Study in detail including:**

17. (V) Traffic Management Plan for the development – Internal circulation indicating road width and turning radius. Cross section of roads at four places showing clear road width, distance left from building line, spaces left for plantation, footpath, service lines etc.

18. (V) Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project showing the time period taken.

19. (V) Topographic details of roads and intersection of the surrounding roads where counts are taken, actual geometry on ground to be shown with dimensions.

20. (V) Traffic generation values of similar development to be given by actual count by actual count as support data for assumption made to the particular project.

21. (V) Parking statement mentioning parking as per DCR & parking provided actually.

22. (V) Basement ventilation plan: Fire Tender Movement Plan showing clear road and turning radius. Cross section of roads at four places including UGT, OWC and DG set location showing clear road width and distance left from building line & spaces left for plantation, parking, service lines, foot paths, etc.

4. **Environmental Impact and Management Plan:**

23. (B) Identify sources of air pollution, indicate mitigation measures to reduce Air pollution/Noise pollution.

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

25. (B) Management of solid waste and the construction & demolition waste for the project vis-a-vis the Solid Waste Management Rules 2016 and the Construction & Demolition Rules, 2016. Transport, collection, storage and disposal for all types of wastes like hazardous waste, non-hazardous waste, solid waste, E- waste, and debris/excess earth etc. PP to provide the detailed solid waste management plan along with marked locations on the master plan. Design details of waste processing equipment such as OWC/biogas plants confirming to the technical requirements to meet the quality products.

26. (B) Waste water management (treatment, reuse and disposal) for the project and also the study area. Design of all STP's along with BOD load, oxygen requirement calculations and sizing of the tanks with respect to the design criteria. PP to submit detailed calculation for the disinfection of the treated STP water; PP to submit cross sectional drawing of STP's showing dimensions and ground level; PP to provide ozonation for tertiary treatment. PP to mark the area required for all STP's on master layout with dimensions

27. (J) PP to show internal storm water drain and sewer line arrangements up to final disposal point.

28. (C) Provision of mandatory RG area on virgin land and submit the drawing with calculations, ensuring entire mandatory RG is provided on the plot where residential buildings are proposed.

29. (G) A detailed phase wise development plan with safety planning where occupancy has been given.

30. (T) If any site specific structures such as creation of water body, alteration of natural storm water, large alteration of slopes, creation of green areas abutting to water bodies / natural storm water drain / river etc, is involved, detailed environmental protection approach for the same shall be provided.

31. (D) Separate chapter on Renewable energy in EIA report. PP to submit terrace plan for installing solar panels& calculations of energy saving; Energy efficient measures (LED lights, solar power, etc.) during construction as well as during operational phase of the project. Report on ECBC compliance.

32. (D) Provide details of Solar PV and Solar water heater in the specific format. PP to carryout shadow analysis for identifying the roof-top area for providing solar panels

33. (B) Environmental status report including analysis reports of all environmental pollution reduction facilities if any commissioned.

34. (K) PP to submit Disaster management plan.

35. (B) Preparation of site specific, executable and auditable environment management plan (EMP)

5. **Environmental Modelling and additional Studies:**

36. (B) Fugitive dust modelling by using local meteorological data.

37. (B) Ecological footprint calculation using LCA approach.

38. (B) Estimation of Carbon footprint of the project.

39. (B) Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection of data and sample analysis shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986 or Environmental Laboratory accredited by NABL, or a laboratory of council of Scientific and Industrial Research (CSIR) institution working in the field of environment.

40. (B) Gate mass balance analysis for environmental parameters related to solid/liquid waste material coming to site, waste generated and its treatment and disposal from site.

41. (K) Preparation of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.

6. **NOCs, Undertakings and CER:**

42. (T) NOC's required: a) CFO NOC, b)Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.

43. (T) Undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.

44. (K) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF&CC circular dt. 01.05.2018, along with details of fund utilization & agreement or consent of executor.

45. PP to refer "approach paper for assessment for environmental damage and estimation of remediation costs for building construction projects initiated with obtaining mandatory environmental clearance" available on the portal : "ecmpcb.in".

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Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 meeting day 03

SEAC Meeting number: 91 **Meeting Date** July 26, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership-Madhuvan 1" located at Survey No. 78 Mohmadwadi, Tal- Haveli, Dist- Pune, State-Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 1
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 78, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road
Locality:	Off East Street
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 33078.56
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.)	23800 sq. m.
16.Deductions	10563.27 sq. m.
17.Net Plot area	13236.73 sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 33078.56
	b) Non FSI area (sq. m.): 10829.66
	c) Total BUA area (sq. m.): 43908.22
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2565.30
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.38
21.Estimated cost of the project	896400000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A to E, Number of Buildings-5	Stilt Parking +14	43.95
2	Building F, Number of Building-1	Stilt Parking +12	38.15

23.Number of tenants and shops	Tenants: 973
24.Number of expected residents / users	4865
25.Tenant density per hectare	2044
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	437.85
	Recycled water - Flushing (CMD):	218.93
	Recycled water - Gardening (CMD):	9.30
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	666.12
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120 (20 CMD x 6 bldgs)
	Excess treated water	333.27 CMD
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	437.85
	Recycled water - Flushing (CMD):	218.93
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	656.78
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120 (20 CMD x 6 bldgs)
	Excess treated water	342.62 CMD
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	656.78	656.78	Not applicable	65.68	65.68	Not applicable	591.10	591.10

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6
	Size of recharge pits :	2.75m X 1m X 1.5m
	Budgetary allocation (Capital cost) :	2.40 lakh
	Budgetary allocation (O & M cost) :	0.36 lakh/year
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.14 m3/sec
	Size of SWD:	200 mm to 450 mm dia RCC Hume pipes
Sewage and Waste water	**Sewage generation in KLD:**	591.10
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	Number of STP - 1, Capacity of STP - 620 KLD
	Location & area of the STP:	Location: Near Building C at the corner of Amenity Space Area : 328 sq.m
	Budgetary allocation (Capital cost):	118 lakh
	Budgetary allocation (O & M cost):	39 lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Concrete Waste: 213 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	973 kg/day
	Wet waste:	1460 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	59 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	15 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 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	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	17	17	Used Oil will be handled by authorized service provider

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1 × 160 kVA	HSD - 37 Litres/hr	1	13	0.1	350

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	37 Litres/hr	37 Litres/hr
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

43.Green Belt Development	**Total RG area :**	1557.28 m2
	No of trees to be cut :	0
	Number of trees to be planted :	177
	List of proposed native trees :	177
	Timeline for completion of plantation :	Till the completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	3	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	3	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting.
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	3	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Albizia procera	3	Fast growing native tree. Fragrant flowers
7	Gmelina arborea	Gamhar/ Shivan	3	Good for plantation for restoration. Beautiful yellow flowers.
8	Heterophragma quadriloculare	Waras	3	Tree looks beautiful with bunches of white flowers.
9	Lagerstroemia thorelli & speciosa	Tamhan	5	Flowering tree with beautiful violet flowers, Butterfly larval host plant.
10	Melia dubia	Limbara	2	Tall straight growing tree, fresh foliage in summer
11	Michelia champaca	Son Chapha/ champa	12	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
12	Mitragyna parvifolia	Kalam	7	It is larval host for butterfly commander. Good shady tree.
13	Pongamia pinnata	Honge Tree, Pongam Tree	7	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
14	Pterospermum acerifolium	Muchkund	3	Fragrant large flowers, sunbirds frequently seen. Beuatidul foliage.
15	Terminalia arjuna	Arjun Tree	7	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.

16	Mimusops elengi	Bakul	7	Evergreen tree with beautiful fragrant flowers. Good for shade.
17	Saraca asoca	Sita Ashok	7	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
18	Holarrhena antidysenterica	Pandhara kuda	18	Shrub with beautiful white fragrant flowers. Medicinal.
19	Woodfordia fruticosa	Dhayati	18	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
20	Wrightia tinctoria	Kala kuda	18	Fragrant white flowers. Medicinal tree.
21	Anogeisus latifolia	Dhawda	2	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
22	Azadirachta indica	Neem Tree	2	Fast growing, medicinal tree. Religiously important tree.
23	Baringtonia acutangula	Indian oak	2	Good foliage, beautiful red hanging flowers. Planted for shade and beautification.
24	Bauhinia purpurea	Kanchan	2	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
25	Bombax ceiba	Indian silk cotton tree	2	Tree with Good foliage and beautiful red flowers. Flowers are full with nectar which attracts many species of birds.
26	Butea monosperma	Palas	2	Beautiful scarlet flowers, attract many birds. Used in afforestation of saline and waterlogged regions.
27	Cassia fistula	Golden Shower/ Amaltas	5	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
28	Crataeva adansonii	-	2	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
29	Dalbergia sissoo	Sisoo	5	Fast growing tree. Larval host for butterfly Black Rajah.
30	Dillenia indica	Mota karmal	2	Showy big leaves. Fruits are sour,food value
31	Erythrina stricta	Pangara	2	Fast growing. Beautiful red flowers. Attracts lot of birds during flowering
32	Ficus bengalensis	Wad	1	Larval host for butterflies like common Indian crow. Fruiting trees attract lot of birds. Ecologically important tree species. Medicinal.
33	Holoptelea integrifolia	Indian Elm	2	Good shade tree for summer. Pods are edible.

34	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	10	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.
35	Thespesia populnea	Indian Tulip Tree/ Bhendi	5	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	2185 kW
	During Operation phase (Demand load):	1,660 kW
	Transformer:	3 × 630 kVA
	DG set as Power back-up during operation phase:	1 × 160 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 216 kW
2. Water Heating: 34 kW
3. Common Area Lighting: 12 kW
4. External / Landscape Area Lighting: 136 kW
5. Parking (Basement + Stilt) Area Lighting: 34 kW
6. Plumbing, Fire, Equipment & Ventilation: 29 kW
7. Lifts & Escalators: 9 kW

Total Percentage Saving: 22.08 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	10.14
2	Water Heating	1.60
3	Common Area Lighting	0.56

4	External / Landscape Area Lighting	6.38
5	Parking (Basement + Stilt) Area Lighting	1.60
6	Plumbing, Fire, Equipment & Ventilation	1.36
7	Lifts & Escalators	0.42

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage treatment plant – 620 CMD capacity
Biodegradable Waste	Not applicable	Organic Waste Converter (OWC)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	133 lakhs
	O & M cost:	40.5 lakhs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Mobile toilets	No. 10 of units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like site barricading, water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	118	39
2	Rain water harvesting	Ground Water Recharge	2.40	0.36
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater & PV System	88.5	0.89
5	Gardening	Green Belt Development	18.68	2
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	136.48	27.3

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	3466.70 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 1019 Bicycles - 2041
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	NA
	Other Relevant Informations	NA

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	21-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 23800 m2, FSI area of 33078.56 m2, Non FSI area of 10829.66 m2 and total BUA of 43908.22 m2.

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

PP has submitted 5 more applications for grant of prior environmental clearance vide SEIAA-STATEMENT numbers - 3156, 3159, 3164, 3166 and 3168, on contagious plot adjacent to plot under reference of this proposal. It was also observed that the total built up area of all six proposals exceeds 1,50,000 m2.

The Committee, in its 88th meeting has decided that PP shall refer model TOR available on the web site of MoEF&CC and carry out environmental impact assessment studies considering total area of all aforesaid plots and submit a common report. Accordingly, PP has submitted and presented EIA report.

DECISION OF SEAC

During discussion following points emerged:

1. In CER, PP to explore possibility of urban plantation in Government land wherein indigenous plant of higher age group shall be planted.

2. PP to submit disaster management plan for individual proposal incorporating disaster management committee during operation and after completion of project. PP also to submit budgetary details.

3. Fire tender drive way shall be separately marked throughout the plot with 6 m clear width. PP to submit lateral and longitudinal cross section of the same.

4. Even though as per DC Rules only two wheeler and bicycle parkings are require, a few car parking shall be provided wherever possible.

5. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per vehicle as per norms.

6. Traffic Impact Study needs to be revised taking inputs from all 6 sectors together on the proposed 30 m wide road. Today on 12 m wide road exists and has junctions with Hadapsar road on east side and the west side of the Sasane Road, which needs to be surveyed. PP to submit detailed topographical plan of both the intersections of the road.

7. Traffic projection for each sector shall be tabulated together and combined V/C ratio for the total development shall be prepared for 5, 10 and 15 years.

8. PP to submit site specific EMP giving details of Environment Management Committee initially and thereafter if societies are formed and handed over.

9. PP to extend all RW recharge bores upto 60 m.

10. PP to submit details and drawings of internal storm water and sewer line up to final disposal point with invert levels of last chamber.

11. PP to submit details of recharge pits separately for rain water from terrace and from surface.

12. PP to submit RG plan with detailed calculations regarding RG area on virgin land.

13. PP to submit survival report of existing trees. PP to submit undertaking for retaining of existing trees and transplantation of trees if any.

14. PP to submit plantation plan incorporating local native fruit bearing trees.

15. PP to submit undertaking for compensatory plantation as per MoEFCC guidelines.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 meeting day 03

SEAC Meeting number: 91 **Meeting Date** July 26, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership-Madhuvan 3" located at Survey no. 76(part), Plot No. 76A Mohmadwadi, Tal- Haveli, Dist- Pune, State-Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 3
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey no. 76(part) Plot No. 76A, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road
Locality:	Off East Street
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 26656.26
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.)	18,100.00
16.Deductions	7,411.38
17.Net Plot area	10688.62
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 26656.26
	b) Non FSI area (sq. m.): 8939.01
	c) Total BUA area (sq. m.): 35595.27
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2137.75
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20
21.Estimated cost of the project	700700000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A to B, Number of Buildings-2	Stilt Parking+12	38.15
2	Building C to E, Number of Buildings-3	Stilt Parking+14	43.95

23.Number of tenants and shops	Tenants: 784
24.Number of expected residents / users	3920
25.Tenant density per hectare	2165
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	352.80
	Recycled water - Flushing (CMD):	176.40
	Recycled water - Gardening (CMD):	7.54
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	536.74
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	100 m3 (20 m3 x 5 bldgs)
	Excess treated water	268.53
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	352.80
	Recycled water - Flushing (CMD):	176.40
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	529.20
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	100 m3 (20 m3 x 5 bldgs)
	Excess treated water	276.07
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	529.2	529.2	Not applicable	52.9	52.9	Not applicable	476.3	476.3

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2.75 m X 1m X 1.5m
	Budgetary allocation (Capital cost) :	2.0 lakh
	Budgetary allocation (O & M cost) :	0.3 lakh/year
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.11 m3/sec
	Size of SWD:	200 mm to 400 mm diameter RCC Hume pipe
Sewage and Waste water	**Sewage generation in KLD:**	476
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	500
	Location & area of the STP:	Near Building A at the right top corner of plot, Area : 275 sq.m
	Budgetary allocation (Capital cost):	95.26 lakh
	Budgetary allocation (O & M cost):	31.29 lakhs/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Concrete Waste: 172 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	784 kg/day
	Wet waste:	1176 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	34 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Near Bottom corner of building C
	Area for the storage of waste & other material:	18 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 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	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	15	15	Used Oil will be handled by authorized service provider

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1 × 125 KVA	28 Liters/Hour	1	13	100	300 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	28 Liters/Hour	28 Liters/Hour
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

43.Green Belt Development	**Total RG area :**	1257.48 sq. m.
	No of trees to be cut :	3
	Number of trees to be planted :	143
	List of proposed native trees :	143
	Timeline for completion of plantation :	Till the project completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	2	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	3	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting.
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	3	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Pandhra siris	2	Fast growing native tree. Fragrant flowers.
7	Heterophragma quadriloculare	Waras	8	Tree looks beautiful with bunches of white flowers.
8	Lagerstroemia thorelli & speciosa	Tamhan	8	Flowering tree with beautiful violet flowers, Butterfly larval host plant.
9	Melia dubia	Limbara	3	Tall straight growing tree, fresh foliage in summer
10	Michelia champaca	Son Chapha/ champa	14	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
11	Mitragyna parvifolia	Kalam	7	It is larval host for butterfly commander. Good shady tree.
12	Pongamia pinnata	Honge Tree, Pongam Tree	7	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
13	Pterospermum acerifolium	Muchkund	4	Fragrant large flowers, sunbirds frequently seen. Beautiful foliage.
14	Terminalia arjuna	Arjun Tree	9	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.
15	Mimusops elengi	Bakul	9	Evergreen tree with beautiful fragrant flowers. Good for shade.

16	Saraca asoca	Sita Ashok	9	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
17	Holarrhena antidysenterica	Pandhara kuda	8	Shrub with beautiful white fragrant flowers. Medicinal.
18	Woodfordia fruticosa	Dhayati	7	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
19	Wrightia tinctoria	Kala kuda	7	Fragrant white flowers. Medicinal tree.
20	Anogeisus latifolia	Dhawda	1	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
21	Azadirachta indica	Neem Tree	1	Fast growing, medicinal tree. Religiously important tree.
22	Baringtonia acutangula	Indian oak	1	Good foliage, beautiful red hanging flowers. Planted for shade and beautification.
23	Bauhinia purpurea	Kanchan	2	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
24	Bombax ceiba	Indian silk cotton tree	2	Tree with Good foliaage and beuatiful red flowers. Flowers are full with nectar which attracts many species of birds.
25	Butea monosperma	Palas	1	Beautiful scarlet flowers, attract many birds. Used in afforestation of saline and waterlogged regions.
26	Cassia fistula	Golden Shower/ Amaltas	5	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
27	Crataeva adansonii	-	1	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
28	Dalbergia sissoo	Sisoo	1	Fast growing tree. Larval host for butterfly Black Rajah.
29	Holoptelea integrifolia	Indian Elm	5	Good shade tree for summer. Pods are edible
30	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	6	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.
31	Thespesia populnea	Indian Tulip Tree/ Bhendi	5	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.
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 :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	1760 kW
	During Operation phase (Demand load):	1341 kW
	Transformer:	3 × 500 kVA
	DG set as Power back-up during operation phase:	1 ×125 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 186 kW
2. Water Heating: 16 kW
3. Common Area Lighting: 14 kW
4. External / Landscape Area Lighting: 113 kW
5. Parking (Basement + Stilt) Area Lighting: 35 kW
6. Plumbing, Fire, Equipment & Ventilation: 15 kW
7. Lifts & Escalators: 7 kW

Total Saving: 22.35 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	10.77
2	Water Heating	0.93
3	Common Area Lighting	0.81
4	External / Landscape Area Lighting	6.54
5	Parking (Basement + Stilt) Area Lighting	2.03
6	Plumbing, Fire, Equipment & Ventilation	0.87
7	Lifts & Escalators	0.41

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	NA	Sewage treatment plant – 500 CMD capacity
Biodegradable Waste	NA	Organic Waste Converter

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	110.26 lakh
	O & M cost:	32 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	Mobile toilets with/ without STP	No. 10 of units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, Acoustic enclosures, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	95.26	31.29
2	Rain water harvesting	Ground Water Recharge	2.0	0.30
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater	71.34	0.71
5	Gardening	Green Belt Development	15.09	1.5
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	124.06	24.81

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

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

52.Any Other Information

No Information Available

53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2798.20 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 823, Bicycles - 1646
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	25-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-

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

Brief information of the project by SEAC

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

PP has submitted 5 more applications for grant of prior environmental clearance vide SEIAA-STATEMENT numbers - 3150, 3156, 3164, 3166 and 3168 on contagious plot adjacent to plot under reference of this proposal. It was also observed that the total built up area of all six proposals exceeds 1,50,000 m2.

The Committee, in its 88th meeting has decided that PP shall refer model TOR available on the web site of MoEF&CC and carry out environmental impact assessment studies considering total area of all aforesaid plots and submit a common report. Accordingly, PP has submitted and presented EIA report.

DECISION OF SEAC

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3. Fire tender drive way shall be separately marked throughout the plot with 6 m clear width. PP to submit lateral and longitudinal cross section of the same.

4. Even though as per DC Rules only two wheeler and bicycle parkings are require, a few car parking shall be provided wherever possible.

5. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per vehicle as per norms.

6. Traffic Impact Study needs to be revised taking inputs from all 6 sectors together on the proposed 30 m wide road. Today on 12 m wide road exists and has junctions with Hadapsar road on east side and the west side of the Sasane Road, which needs to be surveyed. PP to submit detailed topographical plan of both the intersections of the road.

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10. PP to submit details and drawings of internal storm water and sewer line up to final disposal point with invert levels of last chamber.

11. PP to submit details of recharge pits separately for rain water from terrace and from surface.

12. PP to submit RG plan with detailed calculations regarding RG area on virgin land.

13. PP to submit survival report of existing trees. PP to submit undertaking for retaining of existing trees and transplantation of trees if any.

14. PP to submit plantation plan incorporating local native fruit bearing trees.

15. PP to submit undertaking for compensatory plantation as per MoEFCC guidelines.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 meeting day 03

SEAC Meeting number: 91 **Meeting Date** July 26, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership - Madhuvan 5- Survey No. 76(part), Plot No. 76C Mohmadwadi, Tal- Haveli, Dist- Pune, State - Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 5
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey No. 76(part), Plot No. 76C - Madhuvan 5, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road
Locality:	Off East Street
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 22164.26
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	12500.00
16.Deductions	3624.31
17.Net Plot area	8875.69
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22164.26
	b) Non FSI area (sq. m.): 7321.31
	c) Total BUA area (sq. m.): 29485.57
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	1710.20
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.26
21.Estimated cost of the project	526100000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A to C, Number of Building: 3	Stilt Parking+14	43.95
2	Building D, Number of Building: 1	Stilt Parking+13	41.05

23.Number of tenants and shops	Total Tenants: 652
24.Number of expected residents / users	3260
25.Tenant density per hectare	260.8
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6-9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	293.40
	Recycled water - Flushing (CMD):	146.70
	Recycled water - Gardening (CMD):	6.27
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	446.37
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	80 m3 (20 m3 x 4 bldgs)
	Excess treated water	223.32
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	293.40
	Recycled water - Flushing (CMD):	146.70
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	440.10
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	80 m3 (20 m3 x 4 bldgs)
	Excess treated water	229.59
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	440.10	440.10	Not applicable	44.01	44.01	Not applicable	396.09	396.09

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2.75 m X 1m X 1.5 m
	Budgetary allocation (Capital cost) :	2 lakh/year
	Budgetary allocation (O & M cost) :	0.30 lakh
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.10 m3/sec
	Size of SWD:	200 mm to 400 mm dia RCC Hume pipes
Sewage and Waste water	**Sewage generation in KLD:**	396
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of Capacity-416 KLD
	Location & area of the STP:	Near Building A at the right top corner of plot Area : 230 sq.m
	Budgetary allocation (Capital cost):	79.22 lakh
	Budgetary allocation (O & M cost):	26.02 lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	143 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	652 kg/day
	Wet waste:	978 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.32 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	20 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 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	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	15	15	Used Oil will be handled by authorized service provider

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1 × 100 kVA	HSD – 24 Litres/hr	1	13	0.1	300 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	24 Litres/hr	24 Litres/hr
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

43.Green Belt Development	**Total RG area :**	1044.20 sq. m.
	No of trees to be cut :	0
	Number of trees to be planted :	116
	List of proposed native trees :	116
	Timeline for completion of plantation :	Till the Project Completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	2	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	2	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting.
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	1	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Pandhra siris	1	Fast growing native tree. Fragrant flowers.
7	Gmelina arborea	Gamhar/ Shivan	3	Good for plantation for restoration. Beautiful yellow flowers.
8	Heterophragma quadriloculare	Waras	3	Tree looks beautiful with bunches of white flowers.
9	Lagerstroemia thorelli & speciosa	Tamhan	4	Flowering tree with beautiful violet flowers, Butterfly larval host plant.
10	Melia dubia	Limbara	2	Tall straight growing tree, fresh foliage in summer
11	Michelia champaca	Son Chapha/ champa	5	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
12	Mitragyna parvifolia	Kalam	5	It is larval host for butterfly commander. Good shady tree.
13	Pongamia pinnata	Honge Tree, Pongam Tree	4	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
14	Terminalia arjuna	Arjun Tree	5	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.
15	Mimusops elengi	Bakul	5	Evergreen tree with beautiful fragrant flowers. Good for shade.

16	Saraca asoca	Sita Ashok	5	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
17	Holarrhena antidysenterica	Pandhara kuda	13	Shrub with beautiful white fragrant flowers. Medicinal.
18	Woodfordia fruticosa	Dhayati	12	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
19	Wrightia tinctoria	Kala kuda	10	Fragrant white flowers. Medicinal tree.
20	Anogeisus latifolia	Dhawda	1	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
21	Azadirachta indica	Neem Tree	1	Fast growing, medicinal tree. Religiously important tree.
22	Bauhinia purpurea	Kanchan	2	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
23	Cassia fistula	Golden Shower/ Amaltas	4	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
24	Crataeva adansonii	-	3	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
25	Dalbergia sissoo	Sisoo	3	Fast growing tree. Larval host for butterfly Black Rajah.
26	Dillenia indica	Mota karmal	2	Showy big leaves. Fruits are sour,food value
27	Erythrina stricta	Pangara	4	Fast growing. Beautiful red flowers. Attracts lot of birds during flowering
28	Holoptelea integrifolia	Indian Elm	4	Good shade tree for summer. Pods are edible.
29	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	5	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.
30	Thespesia populnea	Indian Tulip Tree/ Bhendi	3	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.
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 :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	1464 kW
	During Operation phase (Demand load):	1112 kW
	Transformer:	2 × 630 kVA
	DG set as Power back-up during operation phase:	1 × 100 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 145 kW
2. Water Heating: 14 kW
3. Common Area Lighting: 14 kW
4. External / Landscape Area Lighting: 87 kW
5. Parking (Basement + Stilt) Area Lighting: 31 kW
6. Plumbing, Fire, Equipment & Ventilation: 19 kW
7. Lifts & Escalators: 6 kW

Total Saving: 22.15 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	10.15
2	Water Heating	0.98
3	Common Area Lighting	0.98
4	External / Landscape Area Lighting	6.09
5	Parking (Basement + Stilt) Area Lighting	2.17
6	Plumbing, Fire, Equipment & Ventilation	1.33
7	Lifts & Escalators	0.42

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage treatment plant – 416 CMD
Biodegradable Waste	Not applicable	Organic Waste Converter (OWC)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	94.22 lakh
	O & M cost:	27.72 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	Mobile toilets with/ without STP	No. 10 of units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, Acoustic enclosures, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	79.22	26.02
2	Rain water harvesting	Ground Water Recharge	2.00	0.30
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater	59.33	0.59
5	Gardening	Green Belt Development	12.53	1.3
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	111.65	22.33

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:**	NA
	Number and area of podia:	NA
	Total Parking area:	2328.30 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 685, Cycles - 1369
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 12500.00 m2, FSI area of 22164.26 m2, Non FSI area of 7321.31 m2 and total BUA of 29485.57 m2.

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

PP has submitted 5 more applications for grant of prior environmental clearance vide SEIAA-STATEMENT numbers 3150, 3156, 3159, 3164 and 3168 on contagious plot adjacent to plot under reference of this proposal. It was also observed that the total built up area of all six proposals exceeds 1,50,000 m2.

The Committee, in its 88th meeting has decided that PP shall refer model TOR available on the web site of MoEF&CC and carry out environmental impact assessment studies considering total area of all aforesaid plots and submit a common report. Accordingly, PP has submitted and presented EIA report.

DECISION OF SEAC

During discussion following points emerged:

1. In CER, PP to explore possibility of urban plantation in Government land wherein indigenous plant of higher age group shall be planted.

2. PP to submit disaster management plan for individual proposal incorporating disaster management committee during operation and after completion of project. PP also to submit budgetary details.

3. Fire tender drive way shall be separately marked throughout the plot with 6 m clear width. PP to submit lateral and longitudinal cross section of the same.

4. Even though as per DC Rules only two wheeler and bicycle parkings are require, a few car parking shall be provided wherever possible.

5. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per vehicle as per norms.

6. Traffic Impact Study needs to be revised taking inputs from all 6 sectors together on the proposed 30 m wide road. Today on 12 m wide road exists and has junctions with Hadapsar road on east side and the west side of the Sasane Road, which needs to be surveyed. PP to submit detailed topographical plan of both the intersections of the road.

7. Traffic projection for each sector shall be tabulated together and combined V/C ratio for the total development shall be prepared for 5, 10 and 15 years.

8. PP to submit site specific EMP giving details of Environment Management Committee initially and thereafter if societies are formed and handed over.

9. PP to extend all RW recharge bores upto 60 m.

10. PP to submit details and drawings of internal storm water and sewer line up to final disposal point with invert levels of last chamber.

11. PP to submit details of recharge pits separately for rain water from terrace and from surface.

12. PP to submit RG plan with detailed calculations regarding RG area on virgin land.

13. PP to submit survival report of existing trees. PP to submit undertaking for retaining of existing trees and transplantation of trees if any.

14. PP to submit plantation plan incorporating local native fruit bearing trees.

15. PP to submit undertaking for compensatory plantation as per MoEFCC guidelines.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 meeting day 03

SEAC Meeting number: 91 **Meeting Date** July 26, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership- Survey No. 76(part), Plot No. 76D, Madhuvan 6, Mohmadwadi, Tal- Haveli, Dist- Pune, State - Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 6
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
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	Survey No. 76(part), Plot No. 76D - Madhuvan 6, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road
Locality:	Off East Street
City:	Pune- 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 18804.24
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	10300.00
16.Deductions	2737.55
17.Net Plot area	7562.45
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 18804.24
	b) Non FSI area (sq. m.): 6566.76
	c) Total BUA area (sq. m.): 25371.00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	1441.10
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.05
21.Estimated cost of the project	442800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A to D, Number of Building: 4	Stilt Parking+14	43.95 m

23.Number of tenants and shops	Total Tenants: 552
24.Number of expected residents / users	3320
25.Tenant density per hectare	322.33
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6-9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	248.40
	Recycled water - Flushing (CMD):	124.20
	Recycled water - Gardening (CMD):	4.45
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	377.04
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	80 m3 (20 m3 x 4 bldgs)
	Excess treated water	189.92
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	248.40
	Recycled water - Flushing (CMD):	124.20
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	372.60
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	80 m3 (20 m3 x 4 bldgs)
	Excess treated water	194.37
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	372.60	372.60	Not applicable	37.26	37.26	Not applicable	335.34	335.34

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2.75 m X 1m X 1.5 m
	Budgetary allocation (Capital cost) :	2 lakh
	Budgetary allocation (O & M cost) :	0.30 lakh/Year
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.08 m3/sec
	Size of SWD:	200 mm to 400 mm dia RCC Hume pipe
Sewage and Waste water	**Sewage generation in KLD:**	335
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of Capacity - 352 KLD
	Location & area of the STP:	Near Building A at the right top corner of plot, Area : 200 sq.m
	Budgetary allocation (Capital cost):	67.07 lakh
	Budgetary allocation (O & M cost):	22.03 lakh/Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	121 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	664 kg/day
	Wet waste:	996 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.32 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	18 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 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	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	15	15	Used Oil will be handled by authorized service provider

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1 × 100 kVA	HSD – 24 Litres/hr	1	13	0.1	300 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	24 Litres/hr	24 Litres/hr
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

43.Green Belt Development	**Total RG area :**	889.70 m2
	No of trees to be cut :	0
	Number of trees to be planted :	95
	List of proposed native trees :	95
	Timeline for completion of plantation :	Till the project completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	2	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	2	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	3	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Pandhra siris	2	Fast growing native tree. Fragrant flowers.
7	Gmelina arborea	Gamhar/ Shivan	3	Good for plantation for restoration. Beautiful yellow flowers.
8	Heterophragma quadriloculare	Waras	3	Tree looks beautiful with bunches of white flowers.
9	Lagerstroemia thorelli & speciosa	Tamhan	4	Flowering tree with beautiful violet flowers, Butterfly larval host plant
10	Melia dubia	Limbara	2	Tall straight growing tree, fresh foliage in summer
11	Michelia champaca	Son Chapha/ champa	7	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
12	Mitragyna parvifolia	Kalam	5	It is larval host for butterfly commander. Good shady tree.
13	Pongamia pinnata	Honge Tree, Pongam Tree	5	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
14	Terminalia arjuna	Arjun Tree	4	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.
15	Mimusops elengi	Bakul	4	Evergreen tree with beautiful fragrant flowers. Good for shade.

16	Saraca asoca	Sita Ashok	4	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
17	Holarrhena antidysenterica	Pandhara kuda	7	Shrub with beautiful white fragrant flowers. Medicinal.
18	Woodfordia fruticosa	Dhayati	7	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
19	Wrightia tinctoria	Kala kuda	7	Fragrant white flowers. Medicinal tree.
20	Anogeisus latifolia	Dhawda	1	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
21	Azadirachta indica	Neem Tree	1	Fast growing, medicinal tree. Religiously important tree.
22	Baringtonia acutangula	Indian oak	1	Good foliage, beautiful red hanging flowers. Planted for shade and beautification
23	Bauhinia purpurea	Kanchan	2	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
24	Bombax ceiba	Indian silk cotton tree	2	Tree with Good foliaage and beuatiful red flowers. Flowers are full with nectar which attracts many species of birds.
25	Butea monosperma	Palas	1	Beautiful scarlet flowers, attract many birds. Used in afforestation of saline and waterlogged regions.
26	Cassia fistula	Golden Shower/ Amaltas	1	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
27	Crataeva adansonii	-	1	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
28	Dalbergia sissoo	Sisoo	1	Fast growing tree. Larval host for butterfly Black Rajah.
29	Holoptelea integrifolia	Indian Elm	3	Good shade tree for summer. Pods are edible
30	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	5	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.
31	Thespesia populnea	Indian Tulip Tree/ Bhendi	3	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.
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 :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	1240 kW
	During Operation phase (Demand load):	954 kW
	Transformer:	2 x 500 kVA
	DG set as Power back-up during operation phase:	1 x 100 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 117 kW
2. Water Heating: 14 kW
3. Common Area Lighting: 12 kW
4. External / Landscape Area Lighting: 64 kW
5. Parking (Basement + Stilt) Area Lighting: 27 kW
6. Plumbing, Fire, Equipment & Ventilation: 14 kW
7. Lifts & Escalators: 7 kW
Total Saving: 20.91 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	9.70
2	Water Heating	1.16
3	Common Area Lighting	1.00
4	External / Landscape Area Lighting	5.31
5	Parking (Basement + Stilt) Area Lighting	2.24
6	Plumbing, Fire, Equipment & Ventilation	1.16
7	Lifts & Escalators	0.58

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage treatment plant – 352 CMD capacity
Biodegradable Waste	Not applicable	Organic Waste Converter (OWC)

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	82.07 lakhs
	O & M cost:	23.08 lakhs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Mobile toilets with/ without STP	No. 10 of units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, Acoustic enclosures, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	67.07	22.03
2	Rain water harvesting	Ground Water Recharge	2.00	0.30
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater	50.23	0.50
5	Gardening	Green Belt Development	10.67	1
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	111.65	22.33

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:**	NA
	Number and area of podia:	NA
	Total Parking area:	1971.30 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 580 , Cycles – 1159
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 10300.00 m2, FSI area of 18804.24 m2, Non FSI area of 6566.76 m2 and total BUA of 25371.00 m2.

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

PP has submitted 5 more applications for grant of prior environmental clearance vide SEIAA-STATEMENT numbers 3150, 3156, 3159, 3164 and 3166 on contagious plot adjacent to plot under reference of this proposal. It was also observed that the total built up area of all six proposals exceeds 1,50,000 m2.

The Committee, in its 88th meeting has decided that PP shall refer model TOR available on the web site of MoEF&CC and carry out environmental impact assessment studies considering total area of all aforesaid plots and submit a common report. Accordingly, PP has submitted and presented EIA report.

DECISION OF SEAC

During discussion following points emerged:

1. In CER, PP to explore possibility of urban plantation in Government land wherein indigenous plant of higher age group shall be planted.

2. PP to submit disaster management plan for individual proposal incorporating disaster management committee during operation and after completion of project. PP also to submit budgetary details.

3. Fire tender drive way shall be separately marked throughout the plot with 6 m clear width. PP to submit lateral and longitudinal cross section of the same.

4. Even though as per DC Rules only two wheeler and bicycle parkings are require, a few car parking shall be provided wherever possible.

5. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per vehicle as per norms.

6. Traffic Impact Study needs to be revised taking inputs from all 6 sectors together on the proposed 30 m wide road. Today on 12 m wide road exists and has junctions with Hadapsar road on east side and the west side of the Sasane Road, which needs to be surveyed. PP to submit detailed topographical plan of both the intersections of the road.

7. Traffic projection for each sector shall be tabulated together and combined V/C ratio for the total development shall be prepared for 5, 10 and 15 years.

8. PP to submit site specific EMP giving details of Environment Management Committee initially and thereafter if societies are formed and handed over.

9. PP to extend all RW recharge bores upto 60 m.

10. PP to submit details and drawings of internal storm water and sewer line up to final disposal point with invert levels of last chamber.

11. PP to submit details of recharge pits separately for rain water from terrace and from surface.

12. PP to submit RG plan with detailed calculations regarding RG area on virgin land.

13. PP to submit survival report of existing trees. PP to submit undertaking for retaining of existing trees and transplantation of trees if any.

14. PP to submit plantation plan incorporating local native fruit bearing trees.

15. PP to submit undertaking for compensatory plantation as per MoEFCC guidelines.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 91st SEAC-3 meeting day 03

SEAC Meeting number: 91 **Meeting Date** July 26, 2019

Subject: Environment Clearance for Environment Clearance for :-Commercial Development "Nyati Unitree" at S.no. 103/129B,CTS No. 1995, S.No. 103/129C, CTS No. 1995 and CTS No. 1996 B, Yerawada, Pune.

Is a Violation Case: Yes

1.Name of Project	"Nyati Unitree" (Commercial Development)
2.Type of institution	Private
3.Name of Project Proponent	Nyati Builders Private Limited
4.Name of Consultant	Fine Envirotech Engineers
5.Type of project	Commercial Building
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 103/129B,CTS No. 1995, S.No. 103/129C, CTS No. 1995 and CTS No. 1996 B, Yerawada, Pune.
9.Taluka	Pune City
10.Village	Yerwada
Correspondence Name:	Nyati Builders Private Limited
Room Number:	NA
Floor:	East Wing , 5th Floor
Building Name:	Nyati Unitree
Road/Street Name:	Nagar Road
Locality:	Yerwada
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate No. CC/1106/17 dated 21/07/2017 received from Pune Municipal Corporation.
	IOD/IOA/Concession/Plan Approval Number: Commencement Certificate No. CC/1106/17 dated 21/07/2017
	Approved Built-up Area: 18084.10
13.Note on the initiated work (If applicable)	Total constructed work (FSI area + Non FSI area) =28818.40sqm FSI area (sq.mt.) (10663.50sqm Non FSI area (Sq.mt.) +18154.90 sqm)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	8,041.81 sq.mt.
16.Deductions	1423.69 sq.mt.
17.Net Plot area	6,618.12 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 18,084.10 sq.mt. (Existing: 10,663.50 sq.mt + Proposed: 7,420.60 sq.mt)
	b) Non FSI area (sq. m.): 20143.21 sq.mt. (Existing: 18154.90 sq.mt + Proposed: 1988.31 sq.mt)
	c) Total BUA area (sq. m.): 38227.31
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 18089.36 sq.mt.
	Approved Non FSI area (sq. m.): --
	Date of Approval: 21-07-2017
19.Total ground coverage (m2)	1,938.24 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29.29 %
21.Estimated cost of the project	1626400000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing -A1 (Existing)	L3+L2+L1+L.G.+U.G+1st to 8th Floors	35.90 m
2	Wing -A2 (Existing + Proposed)	L3+L2+L1+L.G.+U.G+1st to 8th Floors (Existing - L3+L2+L1+L.G.+U.G+1st to 4th Floors. Proposed - 5th floor to 8th Floors)	35.90 m
3	Club house (Existing)	Ground + 01	8.30 m

23.Number of tenants and shops	Total - Office / Showrooms -146 nos. (Existing -88 nos. and proposed -58 nos.)
24.Number of expected residents / users	Total users – 2883 nos. (Existing -1953 nos. and Proposed -930 nos.)
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	2 Km (approx.): 45 m road width
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Wing -A1- L3+L2+L1+L.G.+U.G+1st to 8th Floors Wing -A2- L3+L2+L1+L.G.+U.G+1st to 4th Floors
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
	Fresh water (CMD):	88kld (Existing - 58kld + Proposed -30kld)
	Recycled water - Flushing (CMD):	45kld (Existing - 30kld + Proposed -15kld +HVAC water requirement -24kld)
	Recycled water - Gardening (CMD):	4 kld
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	161kld
	Fire fighting - Underground water tank(CMD):	200 KLD
	Fire fighting - Overhead water tank(CMD):	20 KLD in 2 Nos OHT
	Excess treated water	2 kld
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	88 kld (Existing - 58 kld + Proposed -38 kld)
	Recycled water - Flushing (CMD):	45 kld (Existing - 30 kld + Proposed -15 kld +HVAC water requirement -24 kld)
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	157kld
	Fire fighting - Underground water tank(CMD):	200 KLD
	Fire fighting - Overhead water tank(CMD):	20 KLD in 2 Nos OHT
	Excess treated water	6 kld
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	No. of recharge pits: 3 Nos.
	Size of recharge pits :	Size: 1.5 m. X 1.5 m. X 1.5 m. depth rain water harvesting pit
	Budgetary allocation (Capital cost) :	Rs. 6,00,000.00/-
	Budgetary allocation (O & M cost) :	Rs. 50000.00/-
	Details of UGT tanks if any :	Domestic water tank –148 KLD Flushing water tank –51 KLD Fire water tank – 200 KLD
35.Storm water drainage	**Natural water drainage pattern:**	NA
	Quantity of storm water:	26.80 cum/day
	Size of SWD:	600 mm dia pipe
Sewage and Waste water	**Sewage generation in KLD:**	106kld
	STP technology:	MBBR technology
	Capacity of STP (CMD):	1 STP of 175 kld
	Location & area of the STP:	Location : L 2 & L 3,Area -160 sqm
	Budgetary allocation (Capital cost):	Rs. 24 lacs
	Budgetary allocation (O & M cost):	Rs. 9.2 lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: Construction waste will be generated from the building will be channelized through debris chutes. It includes waste concrete, broken blocks, waste plaster, metallic scrap etc. Approx 160kg/day.
	Disposal of the construction waste debris:	Debris Management Plan will be prepared & executed.
Waste generation in the operation Phase:	**Dry waste:**	347.00 kg/day
	Wet waste:	231.00 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	8 kg/day
	Others if any:	E waste : 25 kg/day

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handed over to SWaCH for further handling and disposal Purpose.
	Wet waste:	Wet waste will be treated in organic waste converter machine
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge will be used as manure for gardening.
	Others if any:	E-waste will be disposed through MPCB authorized vendors. Hi-Tech Recyclers Pvt. Ltd.
Area requirement:	**Location(s):**	L 3
	Area for the storage of waste & other material:	24 sq.mt.
	Area for machinery:	40 sq.mt. KC 250
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 6,68,020 /-
	O & M cost:	Rs. 1,20,000/-

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable
41.Source of Fuel		Not applicable		

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	534.69 sq.mt
	No of trees to be cut :	NA
	Number of trees to be planted :	163 nos.
	List of proposed native trees :	Umber, Pimpal, Bakul, Bahawa, Supari, SitaAshoka, Son chafa, Parijatak, Kanchan, Chandan, Gulmohar, Copper pod, Subabul, Vilayati Chinch, Fountain Tree, Karanj, Bottel Palm, Neem/ Kadunimb, PiwalaChapha, Phanas and Trumpet Trees.
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ficusglomerata	Umber	1	Medicinal value, edible fruits & bird attracting species
2	Ficusreligiosa	Pimpal	4	Large tree, Religious significance, Attracts birds/bees/butterflies, Thick
3	Mimusopselengi	Bakul	49	Attracts Birds/Bees, Trees give thick shade and flowers emit fragrance
4	Cassia fistula	Bahawa	12	Medicinal value, drought tolerant species, very ornamental, well
5	Areca catechu	Supari	21	Fast growing fruit tree, tree is slightly tolerant to salt spray
6	Saracaindica	Sita Ashok	15	Medicinal value, Religious plant.
7	Micheliachampaca	Son Chafa	10	Medicinal value, fragrant flowers, butterfly larvae host plant & bird
8	Nyctanthusarbortristis	Parijatak	8	Fragrant flowers & medicinal value
9	Bauhinia blackiana	Kanchan	5	Evergreen tree, flowering & shady tree
10	Santalum alba	Chandan	1	Medicinal value, edible fruits
11	DelonixRegia	Gulmohar	6	Medicinal properties
12	Peltophorum pterocarpum	Copper pod	3	For beautification, showy flowers, as a seasonal feature
13	Leucaenalatisiliqua	Subabul	15	Upright, large semi-evergreen tree with bright yellow flowers
14	Pithecellobiumdulce	Vilayati Chinch	3	Edible fruit, Fragrant flowers, Fast growing.
15	Spathodiacompanulata	Fountain Tree	3	Fast-growing tree
16	Pongamiapinnata	Karanj	1	Medicinal value, Fast growing, Edible fruit.
17	Roystonearegia	Bottle Palm	1	Shady tree
18	Azadirachtaindica	Neem/ Kadunimb	1	Drought tolerant species
19	Micheliachampaka	PiwalaChapha	1	Medicinal value, Shade giving tree
20	Artocarousheterophyllus	Phanas	1	Butterfly host plant

21	Tabebuiaargentea	Trumpet Trees	2	Edible fruit
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 kW
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	i) Existing Connected Load - 3466 KW (3852KVA) ii) Proposed Connected Load –1214 KW (1349 KVA) iii) Total Existing & Proposed Connected Load – 4680 KW (5200 KVA)
	During Operation phase (Demand load):	i) Existing Maximum Demand Load - 2512 KW (2792 KVA) ii) Proposed Maximum Demand Load – 810 KW (900 KVA) iii) Total Existing & Proposed Maximum Demand Load – 3322 KW (3692 KVA)
	Transformer:	1 No x 1500 KVA(Existing) + 2 Nos. x 630 KVA (Existing) + 1 No. x 630 KVA (Proposed)
	DG set as Power back-up during operation phase:	1 No x 1000 KVA (Existing) + 2 No. x 1000 KVA (Proposed)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

• Use of LED lamps for common areas.
• Use of motion sensors, Timers & daylight sensors for common area lighting
• Use of stand-alone solar powered lamps for common area lights, external, street lights & landscape lighting.
• Street lighting will be designed to improve night visibility through glare reduction and also reduce sky-glow.
• All common areas & plants like STP, WTP etc. will separate KWH meters to measure energy consumption independently.
• All equipment's like Transformers, DG sets, UPS etc will be use of high efficiency to reduce the power loss.
• Solar PV Panel system will be proposed for street lighting and Building Common Area Load of installed capacity of KW.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Power & LED Lighting In KWH	16.7 %
2	Solar Power In KWH	13.8 %

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:**	Rs. 41,60,000/-
	O & M cost:	Rs. 2,08,000 /-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air and Noise	Site Barricading and Dust Control Measures	6
2	Water	Tanker Water For Construction And Waste Water Management	3
3	Solid waste	Construction Waste Management	2
4	Occupation Health and safety	Health Checkup of Workers, , toilet, sanitation, Disinfection at Site, First Aid Facility, Personal Protective Equipment	4
5	Environmental Monitoring	Air, Noise, Water, Biological	5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	1 STP of capacity 175 kld capacity based on MBBR technology	24	9.2
2	Rainwater harvesting system	3 nos. of Recharge Pits of size: 1.5 m. X 1.5 m. X 1.5 m. depth	1.50	0.05
3	Solid waste management	OWC, Manpower and colored dustbins	6.68	1.20
4	Solid waste management	OWC, Manpower and colored dustbins	6.68	1.20

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

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

52.Any Other Information

No Information Available

53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	2 nos.
Parking details:	**Number and area of basement:**	3 nos - 3909.85 sqm x 3 nos = 11729.55sqm
	Number and area of podia:	NA
	Total Parking area:	7839sqm
	Area per car:	35 sqm
	Area per car:	35 sqm
	Number of 2-Wheelers as approved by competent authority:	1062 nos.
	Number of 4-Wheelers as approved by competent authority:	424 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	7.5 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Schedule -8a, Category -B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-

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

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 8,041.81 m2, FSI area of 18,084.10 m2, Non FSI area of 18,084.10 m2 and total BUA of 38227.31 m2.

The PP informed that they have carried out 28818.40 m2 construction work of onsite, this amounting to violation of Environment (Protection) Act, 1986 r.w. EIA Notification 2006, amended till date.

DECISION OF SEAC

The Committee noted that the PP has not applied within the prescribed period as per the MoEF&CC Notification dated 14/03/2017, 8/03/2018 and concerned office memoranda issued from time to time.

In view of above, the Committee decided to **refer to the proposal to SEIAA** for further decision.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.