Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for proposed project by M/s Kedar Associates

Is a Violation Case: No

1.Name of Project	"Krishnakunj Residency"
2.Type of institution	Private
3.Name of Project Proponent	Mr. S.G. Lanke
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	S. No. 41A/2/1/1
9.Taluka	Haveli
10.Village	Wadgaon (Bk.)
Correspondence Name:	Mr. S.G. Lanke
Room Number:	Office No. 9
Floor:	-
Building Name:	Rahul Complex, Near Krishna Hospital
Road/Street Name:	Paud Road
Locality:	Kothrud
City:	Pune-38
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: CC/3138/17
	Approved Built-up Area: 27342.79
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.)	10500.00 m2
16.Deductions	2945.97 m2
17.Net Plot area	7554.03 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 16193.39
	b) Non FSI area (sq. m.): 11202.83
	c) Total BUA area (sq. m.): 27396.22
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 16193.39
	Approved Non FSI area (sq. m.): 11149.40
	Date of Approval: 26-02-2018
19.Total ground coverage (m2)	1925.12
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.33 % of Total Plot area (10500.00 m2) and 25.48% of Net Plot area (7554.03 m2)
21.Estimated cost of the project	739500000

22.Number of buildings & its configuration

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

1	Building A	LP + UP / G+11	36 M
2	Building B	LP +UP +11	36 M
3	Building C	LP +UP +11	36 M
4	Building D	LP+7	23.35 M
5	Building E	LP+8	26.25 M

23.Number of tenants and shops	Total Tenements -283 Nos. Total Shops- 07 Nos.
24.Number of expected residents / users	Residential Users: 1415 Nos. Commercial Users : 58 Nos. Total Users: 1473 Nos.
25.Tenant density per hectare	270/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 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**	PMC
	Fresh water (CMD):	205.64 m3/day (One time)
	Recycled water - Flushing (CMD):	65.13 m3/day
	Recycled water - Gardening (CMD):	7.00 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	133.51 m3/day
	Fire fighting - Underground water tank(CMD):	250 m3
	Fire fighting - Overhead water tank(CMD):	90 m3
	Excess treated water	102.13 m3/day
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	198.64 m3/day (One time)
	Recycled water - Flushing (CMD):	65.13 m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	133.51 m3/day
	Fire fighting - Underground water tank(CMD):	250 m3
	Fire fighting - Overhead water tank(CMD):	90 m3
	Excess treated water	109.13 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 – 12.25 m. to 15.50 m. BGL. (13.38 M. Average) Rainy Season – 4.50 m. to 7.75 BGL. (6.13 M. Average) Winter Season – 8.38 m. to 11.63 m. BGL. (10.01 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	3 Nos.
	Size of recharge pits :	2.0 M X 2.0 M X 1.5 M
	Budgetary allocation (Capital cost) :	Rs.3.00Lakh
	Budgetary allocation (O & M cost) :	Rs 0.25 Lakh/Year
	Details of UGT tanks if any :	For Building A,B,C (Plot A):- Domestic UG tank Capacity: 158.99 m3 Flushing UG tank Capacity: 65.55 m3 Fire UG tank Capacity: 150 m3 For Building D&E (Plot B):- Domestic UG tank Capacity: 97.28 m3 Flushing UG tank Capacity: 42.64 m3 Fire UG tank Capacity: 100 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	84.78 m3/day
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	Plot A:- 105.62 m3/day, Plot B:- 68.65 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	Plot A(STP 1): 110m3/day, Plot B(STP 2):- 70 m3/day
	Location & area of the STP:	For 110m3/day- 71.00 m2 & For 70 m3/day-41.25 m2
	Budgetary allocation (Capital cost):	For 110 m3/day :Rs. 21.00Lakh, For 70 m3/day- 18.00 Lakh
	Budgetary allocation (O & M cost):	For 110 m3/day - Rs. 6.70 Lakh / Year , For 70 m3/day- 6.66 Lakh / Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	50kg/day
	Disposal of the construction waste debris:	Use for Leveling
Waste generation in the operation Phase:	**Dry waste:**	Plot A: -179 kg/day, Plot B: - 113 kg/day
	Wet waste:	A: - 261 kg/day, Plot B: - 170 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Plot A: -9.51 kg/day, Plot B: - 6.17 kg/day
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	SWaCH
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC.
	Others if any:	-
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	OWC 1: 49.80 m2 & OWC 2: 55 m2 including machinery area
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	For 375 kg/day(OWC 1)- Rs12.75 Lakh, For 250 kg/day(OWC 2)- Rs. 12.00 Lakh
	O & M cost:	For 375 kg/day(OWC 1)-- Rs.2.50Lakh / Year , For 250 kg/day(OWC 2)- Rs.2.30 Lakh / Year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	125 KVA – 1 No.	HSD-22.00 Lit./hr	S-1	6.5	will be provided	will be provided
2	62.5 KVA – 1 No	HSD-13.00 Lit./hr	S-2	5.5	will be provided	will be provided

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	35 lit/hr	35 lit/hr

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 :**	937.27m2
	No of trees to be cut :	NA
	Number of trees to be planted :	153 Nos.
	List of proposed native trees :	-
	Timeline for completion of plantation :	Mid of Construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bauhinia tomentosa	Yellow Bauhinia	15	Small tree known to have antimicrobial activity.
2	Gmellina arborea	White Teak	8	Fast growing deciduous tree
3	Putranjiva roxburghii	Putranjiva	5	Evergreen & ornamental tree with medicinal values.
4	Azadirecta indica	Neem	4	Fast growing used for medicinal purpose & pest control.
5	Anthocephalus cadamba	Kadamba	10	It has orange flowers & attracts bees, butterflies & birds.
6	Erithrina indica	Silk Cotton Tree	3	Medium sized flowering trees.
7	Pongamia glarba	Indian Beech	8	Tree has medicinal properties.
8	Artocarpus heterophyllus	Jackfruit	6	Hugh Fruit bearing tree attracts birds.
9	Plumeria alba	White Frangipani	17	Ornamental & flowering tree.
10	Bauhinia blakeana	Kanchan	5	Evergreen & flowering tree & is a spectacular trees.
11	Cassia fistula	Bahava	15	Ornamental tree with yellow flowers.
12	Fishtail palm	Palm	28	Unique looking tree & largely used in landscape designs.
13	Nyctanthes arbortristis	Parijatak	10	Ornamental with fragrant flowers attracts birds & butterflies.
14	Mangifera indica	Mango	6	Evergreen with huge canopy & fruit bearing tree.
15	Tabubia rosea	Tabubia	13	Deciduous tree with spreading crown.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL.
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	1 no. x 40 KVA
	During Operation phase (Connected load):	1199 KW
	During Operation phase (Demand load):	692 KW
	Transformer:	Plot A:- 22KV/630 KVA – 1 No and Plot B:- 22KV/200 KVA – 1 No
	DG set as Power back-up during operation phase:	Plot A: - 125 KVA – 1 No. and Plot B: - 62.5 KVA – 1 No
	Fuel used:	For 125 KVA :- 22.00 Lit./hr for 100% load and For 62.5 KVA :- 13.00 Lit./hr for 100% load
	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 like LED lights

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED Lamp & Fitting For Common Areas i.e. Bldg. Parking, Staircase, Passage & Terrace Floor.	57.75 KWH/DAY
2	Up Lighter - Light Fitting For Landscape Area.	0.96 KWH/DAY
3	Bollard Lighter - Light Fitting For Landscape Area.	0.7 KWH/DAY
4	Solar Street Light Fitting - Pole Light On Road Side.	6 KWH/DAY
5	Street Light on the Bldg.	3.6 KWH/DAY
6	Energy Saving by Solar Hot Water System.	1061.25 KWH/DAY

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	-	Green belt will be provided.
Water	-	STP will be installed & excess treated water used for flushing & gardening

Noise	-	Noise monitoring will be done in once a fortnight. Traffic management plan to be prepared. Acoustically enclosed DG set will be brought & installed.
Solid Waste	-	Wet Waste will be treated in OWC. STP sludge will be Used as Manure after treatment in OWC Dry Waste will be given to SWACH

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 31.74 Lakh
	O & M cost:	Rs 0.91 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 m3/day)	STP 1(For Plot A)	21.00 Lakh	6.70 Lakh/Year
2	STP (70 m3/day)	STP 2(For Plot B)	18.00 Lakh	6.66 Lakh/Year
3	RWH	Rain water Harvesting	3.00 Lakh	0.25 Lakh/Year
4	MSW (375 Kg/day)	OWC 1(For Plot A)	12.75 Lakh	2.50 Lakh/Year
5	MSW (250 Kg/day)	OWC 2(For Plot B)	12.00 Lakh	2.30 Lakh/Year
6	Solar System	-	31.74 Lakh	0.91 Lakh/Year.
7	Landscaping	-	18.00 Lakh	1.80 Lakh/Year
8	Pumping + Piping cost	-	2.10 Lakh	0.80 Lakh/Year
9	Safety Equipments	-	10.00 Lakh	2.00 Lakh/Year
10	Post EC Monitoring	-	-	2.50 Lakh/Year
11	Dry Waste Management	-	-	1.70 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:	8341.40 m2
	Area per car:	40.88 m2
	Area per car:	40.88 m2
	Number of 2-Wheelers as approved by competent authority:	610
	Number of 4-Wheelers as approved by competent authority:	204
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	-

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for proposed project "Krishnakunj Residency" at S. No. 41A/2/1/1, Wadgaon (Bk.) by M/s Kedar Associates.

PP submitted their application for prior Environmental clearance for total plot area of 10500 Sq. Mtrs, BUA of 27366.15 Sq. Mtrs and FSI area of 16193.39 Sq. Mtrs. PP proposes to construct 5 no. no. residential building(wings).

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for Environment Clearance for Proposed IT Development At S.No. 1344/3 & 4 and S.No.63/1/6, Kharadi and Wagholi, Pune City and Haveli, Pune411014 by M/S AIGP Developers(Pune) Private Limited

Is a Violation Case: No

1.Name of Project	Environment Clearance for Proposed IT Development At S.No. 1344/3 & 4 and S.No.63/1/6, Kharadi and Wagholi, Pune City and Haveli, Pune411014 by M/S AIGP Developers(Pune) Private Limited
2.Type of institution	Private
3.Name of Project Proponent	Manoj Somawanshi, AIGP Developers(Pune) Private Limited
4.Name of Consultant	Vke environmental LLP
5.Type of project	Commercial Project (IT/ITES SEZ)
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 Expansion
8.Location of the project	S.No. 1344/3 & 4 and S.No.63/1/6, Kharadi and Wagholi, Pune City and Haveli, Pune 411014
9.Taluka	Haveli
10.Village	Kharadi and Wagholi
Correspondence Name:	Manoj Somawanshi
Room Number:	C/o Ascendas Services (India) Private Limited, Unit 607 and 608, S.No.105(3)
Floor:	6th Floor
Building Name:	Amar Business Park
Road/Street Name:	Baner Road
Locality:	Baner
City:	Pune
11.Area of the project	Kharadi in Pune Municipal Corporation and Wagholi in PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Plan Sanction received from PMRDA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 348679
13.Note on the initiated work (If applicable)	No work initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Sanction received from PMRDA
15.Total Plot Area (sq. m.)	66883.5 sqm
16.Deductions	0 sqm
17.Net Plot area	65840.0 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,68,879.41 Sqm
	b) Non FSI area (sq. m.): 1,79,799.08 Sqm
	c) Total BUA area (sq. m.): 348679
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 1,68,879.41 Sqm
	Approved Non FSI area (sq. m.): 1,79,799.08 Sqm
	Date of Approval: 23-01-2018
19.Total ground coverage (m2)	25242.94
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	38%
21.Estimated cost of the project	8960000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Block 1	4P+S+14	73.05
2	Block 2	4P+S+14	73.05
3	Block 3	2P+S+5	25.90
4	Block 4	1B+UP+G+2	13.80

23.Number of tenants and shops	It is Commercial Building
24.Number of expected residents / users	25800
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)	24m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9 m
29.Existing structure (s) if any	No construction work on site
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	778
	Recycled water - Flushing (CMD):	551
	Recycled water - Gardening (CMD):	92
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1815
	Fire fighting - Underground water tank(CMD):	Total Fire tank UGT 1100 kld
	Fire fighting - Overhead water tank(CMD):	190 for all building
	Excess treated water	0
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	686
	Recycled water - Flushing (CMD):	551
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1723
	Fire fighting - Underground water tank(CMD):	Total Fire tank UGT 1100 kld
	Fire fighting - Overhead water tank(CMD):	190 for all building
	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**
Fresh water requirement	Not applicable	778	778	0	0	0	Not applicable	Not applicable	Not applicable
Gardening	NA	92	92	0	0	0	NA	NA	NA

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post-monsoon water Table 6 - 8m BGL Pre-monsoon water Table 10 -13m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	14 Recharge borewell are proposed
	Size of recharge pits :	2mx2mx3m depth
	Budgetary allocation (Capital cost) :	Rs 15,00,000 /-
	Budgetary allocation (O & M cost) :	Rs 1,50,000 /-
	Details of UGT tanks if any :	Total UGT for Block-1: 1500 KLD Total UGT for Block-2: 1385 KLD Total UGT for Block-3&4: 300 KLD
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern: The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge pits
	Quantity of storm water:	2974.03 m3/hr
	Size of SWD:	3450 mm
Sewage and Waste water	**Sewage generation in KLD:**	1154
	STP technology:	MBR
	Capacity of STP (CMD):	T2 STP's of 600 kld proposed for project STP 1 For lock 1 600 KLD STP 2 For Block 2,3,4--600KLD
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	200.0 lakhs
	Budgetary allocation (O & M cost):	20.0 lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Dry waste (Kg/day): 8 kg/day -Wet waste (Kg/day): 12 kg/day –Total waste generated: 20 Kg/day
	Disposal of the construction waste debris:	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:**	3870 kg/day
	Wet waste:	2580 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	60 kg/day
	Others if any:	E-waste 1860Kg/month

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:	Total OWC area 90 sq m/owc
	Area for machinery:	Total OWC area 90 sq m/owc
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25 lakhs
	O & M cost:	4.6 lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used or Spent oil	0	Kg/month	0	0	0	NA

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	9545 sqm
	No of trees to be cut :	0
	Number of trees to be planted :	896
	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	Mangifera indica	Mango	4	TSacred, bird loving, fruit bearin
2	Anthocephalus kadamba	Kadamba	36	Sacred and flowering
3	Tabebuia rosea	Rose trumpet	85	flowering tree
4	Azardirtcha indica	Neem	60	Medicinal , bird loving, air purifying
5	Michelia champaka	Sonchafa	65	TFragrant flowering and sacred
6	Millingtonia hortensis	Akashneem	71	Fragrant flowering, medicinal
7	Sapthodea campanulata	Flame tree	50	Flowering and medicinal
8	Lagerstromia speciosa	Pride of India	37	Native and flowering
9	Peltophorum pterocarpum	Yellow gulmohar	74	Flowering and ornamental
10	Cassia fistula	Amaltus	51	Sacred and flowering
11	Bauhinia blakeana	Orchid tree	46	Native and flowering
12	Albizzia lebbeck	Shirish	40	Sacred and medicinal
13	Pongamia pinnata	Karanj	65	Native and medicinal
14	Cassia Javanica	Pink shower	34	Flowering, sacred, fast growing
15	Nyctanthes arbor-tristis	PArijat	18	Sacred and flowering, native
16	Filicium decipiens	Fern tree	24	Native, evergreen
17	Plumeria alba	Temple tree	34	Sacred, flowering
18	Jacaranda mimosifolia	Jacaranda	29	Flowering beauty, naturalised
19	Bahuinia racemosa	Apta	23	Native, flowering, small
20	Butea monosperma	Dhak	24	Native, deciduous, flowerin
21	Lagerstroemia Flos reginae	crepe myrtle	26	Native, flowering
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	500KW
	DG set as Power back-up during construction phase	1000kVA DG Set
	During Operation phase (Connected load):	20428kVA
	During Operation phase (Demand load):	10068 kVA
	Transformer:	15500 kva
	DG set as Power back-up during operation phase:	10 DG set of 2000 KVA and 2 Nos of 250 kva, 2 Nos. 360 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

The project is facilitating two main IT/ITES towers and ancillary buildings.
The position of the two towers is at @ 45° to north. This shall help to receive less heat and more light.
1. Central courtyard also gets benefited as at any given point courtyard will have desired sun and shadow. The courtyard would be a relief point to all. Cores of the buildings are placed at Center to receive maximum daylight. Double glazed facade is being considered to reduce the heat gain and maximize the natural light penetration. The orientation of the buildings, materials and design makes this a sustainable development.
2. Solar Street Lights will be used

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Using Solar energy	1% of demand load

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	200.0 L
	O & M cost:	1.92 L

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	17.76
2	Land	Labour camp toilets & sanitation	4.80

3	Health and safety	Labour safety & equipment training	04.00
4	Environment Monitoring	Air, Water, Soil, Noise etc	1.82
5	Health	Health checkup & Disinfection	0.51

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 STP	200	20
2	Organic waste management	2 OWC	25	4.62
3	Landscaping	Development and Maintenance	160	18
4	Rain water harvesting	14 Recharge pits proposed	15	1.5
5	Energy	PV panels for Street Light	200	1.92

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
HSD Fuel	Not applicable	North and South of Site	41	50	16.8	local supplier	Tanker

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 kharadi Area. The development will be accessible from 24 m wide kharadi road while the internal driveways are minimum 6m

Parking details:	**Number and area of basement:**	No basement
	Number and area of podia:	2 podium of 7666.0 area are proposed
	Total Parking area:	1,15,419.20 sqm
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	7542 Nos
	Number of 4-Wheelers as approved by competent authority:	2560 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	6m, 9m and 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	NA
	Court cases pending if any	No court cases pending against project till date.
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	12-09-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Development for IT/ITES SEZ, at S.No. 1344/3 & 4 and S.No.63/1/6, Kharadi and Wagholi, Pune City and Haveli, Pune,by**M/s. AIGP Developers (Pune) Private Limited.**

PP submitted their application for Expansion of Environmental clearance fortotal plot area of 66883.5 Sq. Mtrs, BUA of348678.49Sq. Mtrs and FSI area of 172166.67Sq. Mtrs.PP proposes to construct 3 no. residential building and 1 no.Commercial building .

During discussion PP stated that they are going to reduce one parking floor that's why reducing in area from 433885.23 sq.m. to 348678.49 sq.m.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit details (Specific plan) of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.
2) PP to upload an undertaking for sustainable water supply.
3) PP to plant additional local species of trees.

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for Construction of IT PARK

Is a Violation Case: No

1.Name of Project	Proposed IT PARK
2.Type of institution	Private
3.Name of Project Proponent	M/s KRC Infrastructure & Projects Pvt. Ltd. On behalf of Gera Developments Pvt. Ltd.
4.Name of Consultant	M/s Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	IT park
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. 65/1, 65/2 & 65/3
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	Mr. Anil Mathur
Room Number:	KRC Infrastructure & Projects Pvt. Ltd.
Floor:	Plot No. C-30, Block G, Opp SIDBI
Building Name:	KRC Infrastructure & Projects Pvt. Ltd.
Road/Street Name:	Bandra Kurla Complex
Locality:	Bandra East
City:	Mumbai 400 051
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	DP LAYOUT approval from Pune Municipal Coroporation
	IOD/IOA/Concession/Plan Approval Number: DPO/CC/1455/17
	Approved Built-up Area: 254256
13.Note on the initiated work (If applicable)	Total construction work carried out as per the EC is 94116.0 Sq.m
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	DP layout approval from Pune Municipal Corporation
15.Total Plot Area (sq. m.)	104400
16.Deductions	21377
17.Net Plot area	83022
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 254256
	b) Non FSI area (sq. m.): 271415
	c) Total BUA area (sq. m.): 525671
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 254256
	Approved Non FSI area (sq. m.): 271415
	Date of Approval: 08-09-2017
19.Total ground coverage (m2)	27181
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	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	G1	1 parking, 1 Podium & 10 Office Floors	51.70
2	G2	2 parking, 1 Podium & 12 Office Floors	63.40
3	R1	5 parking, 1 Podium & 12 Office Floors	73.30
4	R2	5 parking, 1 Podium & 09 Office Floors	60.70
5	R3	5 parking, 1 Podium & 12 Office Floors	73.30
6	R4	2 parking, 1 Podium & 13 Office Floors	67.60

23.Number of tenants and shops	0
24.Number of expected residents / users	48000
25.Tenant density per hectare	--
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30.0
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.0
29.Existing structure (s) if any	Labour houses (Patra sheds) for nearby another project
30.Details of the demolition with disposal (If applicable)	Relocation of Labor houses (Patra sheds)

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 and recycled water from STP
	Fresh water (CMD):	1319
	Recycled water - Flushing (CMD):	1741
	Recycled water - Gardening (CMD):	30
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	2549
	Fire fighting - Underground water tank(CMD):	1800
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Wet season:	**Source of water**	Pune Municipal corporation, recycled water from STP and RWH
	Fresh water (CMD):	1079
	Recycled water - Flushing (CMD):	1771
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	2850
	Fire fighting - Underground water tank(CMD):	1800
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Details of Swimming pool (If any)	Not Proposed	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	18
	Size and no of RWH tank(s) and Quantity:	55x6, 215x1
	Location of the RWH tank(s):	Parking level 1, Parking level 3, Ground level
	Quantity of recharge pits:	2
	Size of recharge pits :	900 mm x 900 mm
	Budgetary allocation (Capital cost) :	12000000
	Budgetary allocation (O & M cost) :	160000
	Details of UGT tanks if any :	Domestic UG tank :1920 cum Flushing UG tank:1200 cum Fire UG tank : 1800 cum
35.Storm water drainage	**Natural water drainage pattern:**	towards east of the plot
	Quantity of storm water:	0.79 cum/sec
	Size of SWD:	0.75 m (b) x 0.75 m (d)
Sewage and Waste water	**Sewage generation in KLD:**	1968
	STP technology:	MBBR
	Capacity of STP (CMD):	6x 330
	Location & area of the STP:	Ground level
	Budgetary allocation (Capital cost):	48000000
	Budgetary allocation (O & M cost):	6900000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Steel 440 ton, sand 9540 ton, aggregates 11300 ton
	Disposal of the construction waste debris:	Steel cut pieces shall be used as spacers and chairs in the structure and wastage of steel (balance non usable steel of odd lengths) is sent for recycling, Wastage of sand will be used for bedding for flooring purpose. They shall also be used for backfilling and filler material for levelling of internal roads and pavements, aggregates Shall be used in road pavement and parking bay
Waste generation in the operation Phase:	**Dry waste:**	8400
	Wet waste:	3600
	Hazardous waste:	0
	Biomedical waste (If applicable):	not Applicable
	STP Sludge (Dry sludge):	To be used as a manure
	Others if any:	E waste Authorize vendor shall be appointed for the collection and for final disposal. Separate area has been provided (58.0 Sq.m) for the E waste storage.

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorize recycler for further handling and disposal.
	Wet waste:	Will be converted to compost using Mechanical composter
	Hazardous waste:	Shall be handover to authorized vendor
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	To be used as a manure
	Others if any:	Authorize vendor shall be appointed for the collection and for final disposal. Separate area has been provided (58.0 Sq.m) for the E waste storage.
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	58
	Area for machinery:	80
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	11500000
	O & M cost:	4800000

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 :**	8302
	No of trees to be cut :	0
	Number of trees to be planted :	1040
	List of proposed native trees :	1040
	Timeline for completion of plantation :	7 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	Achrassapota	Chikoo	36	Evergreen
2	Aegle marmelos	Bell tree	55	Evergreen
3	Albizia lebbeck	Siran	70	Deciduous
4	Albizia procera	White Siris	40	Deciduous
5	Annona squamosa	Custard Apple	36	Evergreen
6	Annona reticulata	Luvuni	19	Evergreen
7	Azadirachta indica	Neem	72	Evergreen
8	Bauhinia racemosa	Apta	102	Evergreen
9	Cassia fistula	Golden Shower	48	Deciduous
10	Dalbergia sissoo	Sissoo	48	Evergreen
11	Delonix regia	Flameboyant	45	Deciduous
12	Saraca asoka	Ashok	42	Evergreen
13	Syzygium cumini	Jaman	19	Evergreen
14	Emblica officinalis	Emblica officinalis	58	Deciduous
15	Ficus glomerata	Umbar	39	Deciduous
16	Ficus religiosa	Pipal	34	Evergreen
17	Hibiscus rosa-sinensis	Jaswand	32	Evergreen
18	Mangifera indica	mango	40	Evergreen
19	Nerium indicum	kaner	30	Evergreen
20	Psidium guayava	Amrud	55	Evergreen
21	Samanea saman	Rain tree	120	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	-	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	500 kW
	DG set as Power back-up during construction phase	125 kVA
	During Operation phase (Connected load):	37201 kW
	During Operation phase (Demand load):	28658 kW
	Transformer:	6 Sets x 4x1500KVA, 22KV/0.433 KV, DRY TYPE CAST RESIN TRANSFORMERS
	DG set as Power back-up during operation phase:	6 Sets x (2 x 2000kVA + 2 x 1000kVA), 3 PHASE, 415V, 50 Hz, RADIATOR COOLED DG SETS
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Solar PV panels
Solar Street Lighting
LED Lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Street Lights	4 kw
2	Solar PV panels	264 kW
3	LED	546 KW

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:**	22500000
	O & M cost:	600000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	25

2	Noise Environment	Site Baricades and Green Belt Developments	18
3	Water Environment	Modular STP , Drainage with sedimentation tanks	10
4	Good Health Practices	Site Sanitation & Health Care	12
5	Environment Monitoring	Air, water ,noise soil monitoring during construction phase	16

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water harvesting	Tanks and Recharge well	120	1.6
2	waste management	collection segregation storage and treatment`	115	48
3	Waste water treatment and recycling	STP	480	69
4	Landscaping	-	75	12
5	Non Conventional Energy System	-	225	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:	30.0 mt wide and18.0 mt wide DP

Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	5 parking levels and 1 podium
	Total Parking area:	162614
	Area per car:	33
	Area per car:	33
	Number of 2-Wheelers as approved by competent authority:	13615
	Number of 4-Wheelers as approved by competent authority:	5673
	Public Transport:	-
	Width of all Internal roads (m):	13, 12
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Our entire proposal comprising of total built-up area 5,25,670.80 Sq. m was appraised and recommended by SEAC-III. SEIAA appraised the recommended proposal, but issued EC dated 02-02-2017 restricting the construction for the built-up area of 1,75,491.53 Sq.m as had been approved by Pune Municipal Corporation at that time. The SEIAA instructed us to approach them directly for the enhanced area EC after obtaining Municipal approvals. We have obtained Municipal Approvals and as directed by SEIAA do hereby approach them for grant of EC for the entire project.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	04-07-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Construction of IT PARK at S. No. 65/1, 65/2 & 65/3,Kharadi,Tal- Haveli,Pune, On behalf of Gera Developments Pvt.Ltd by **M/s KRC Infrastructure & Projects Pvt. Ltd.**

PP submitted their application for prior Environmental clearance for total plot area of 83022 Sq. Mtrs, BUA of 525671 Sq. Mtrs and FSI area of 254256 Sq. Mtrs. PP proposes to construct 6 no. IT park /building.

DECISION OF SEAC

PP remains absent, hence committee decided to defer the proposal and consider a fresh.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for Applicaion for proposed Residential and Commercial developement project Anshul Kosmas at Survey no. 275 (P)at vill. Boradewadi, taluka-Haveli, Pune Maharashtra by M/S. Anshul Bhosale Realty

Is a Violation Case: No

1.Name of Project	"ANSHUL KOSMAS" by M/S. Anshul Bhosale Realty
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vikram Bajirao Bhosale, Partner
4.Name of Consultant	Building Environment (India) pvt.Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey No. 275 (P), Village – Boradewadi Moshi, Taluka -Haveli, District – Pune, Maharashtra
9.Taluka	Haveli
10.Village	Boradewadi
Correspondence Name:	Mr. Vikram Bajirao Bhosale, Partner
Room Number:	4th floor
Floor:	4th Floor
Building Name:	karan-Tej Bonita
Road/Street Name:	Ghole Road,
Locality:	Shivajinagar,
City:	Pune
11.Area of the project	Pimpri - Chinchwad Municipal Corporation , Mumbai - Pune Road, Pimpri, Pune-411018, Maharashtra, India
12.IOD/IOA/Concession/Plan Approval Number	• PCMC IOD sanction obtained vide No. B.P./EC /Moshi-Boradewadi/04/2016 on Date 18.06.2016 for 71342.31 m2. Construction area.
	IOD/IOA/Concession/Plan Approval Number: B.P./EC /Moshi-Boradewadi/04/2016 on Date 18.06.2016
	Approved Built-up Area: 71342.31
13.Note on the initiated work (If applicable)	1.• PCMC sanction obtained vide No. B.P. /Layout/Moshi. Boradewadi/37/2013 on Date 02.09.2013 for 18525.74 m2 built up area. 2.• Further sanction obtained Via PCMC No. B.P. /Layout/Moshi. Boradewadi/23/2014 on Date 22.04.2014 for total cumulative area is for 14624.65 m2,3.• Total Construction done on site Area : 15868.69 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	No such scheme involved
15.Total Plot Area (sq. m.)	27407.35 m2
16.Deductions	1.Area under 24 M & 18 M wide D.P. Road-7144.84 m2 2. Required Open Space @ 10 % - 2026.27m2
17.Net Plot area	18236.24m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 32559.93 m2
	b) Non FSI area (sq. m.): 38782.38 m2
	c) Total BUA area (sq. m.): 71342.31
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 32559.63
	Approved Non FSI area (sq. m.): 38782.38
	Date of Approval: 22-04-2014
19.Total ground coverage (m2)	3700.68 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.29%

21.Estimated cost of the project	1146800000.00

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	B+P/SHOP+12	38.85
2	B	B+P/SHOP+12	38.85
3	C	B+P/SHOP+12	37.2
4	D	B+P+12	37.2
5	E	P/SHOP+12	38.85
6	F	P/SHOP+12	38.85
7	G	P+12	37.2
8	H	P+12	37.2
9	Commercial	G	4.65
10	Club House	G+ 1	7.45 m

23.Number of tenants and shops	Tenements- 604 Nos. Shops- 34Nos
24.Number of expected residents / users	Residential Users: Fixed - Residential: 3020 Nos. Commercial users: Floating -Commercial: 292 Nos. Total : 3312 Nos.
25.Tenant density per hectare	237/Hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The road width varies from 9 m to 20 m from the nearest fire station & at a distance of 7.7 km
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	There were no structure on site at the time of land purchase
30.Details of the demolition with disposal (If applicable)	No demolition involved

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pimpri Chinchawad Municipal Corporation
	Fresh water (CMD):	283
	Recycled water - Flushing (CMD):	142
	Recycled water - Gardening (CMD):	17
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	283
	Fire fighting - Underground water tank(CMD):	20
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	223
Wet season:	**Source of water**	Pimpri Chinchawad Municipal Corporation
	Fresh water (CMD):	283
	Recycled water - Flushing (CMD):	142
	Recycled water - Gardening (CMD):	Not Applicable
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	283
	Fire fighting - Underground water tank(CMD):	20
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	240
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:**	10 m
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	6
	Size of recharge pits :	2 m x2 m x 3 m
	Budgetary allocation (Capital cost) :	12.63 lacs
	Budgetary allocation (O & M cost) :	0.63 lacs/ annum
	Details of UGT tanks if any :	Bldg. A,B,C,D + Club House -Domestic UG tank + Flushing +Gardening UG tank Capacity : 394 KLD Fire UG tank Capacity: 20 KLD Location of the UG Tank – Near Bldg. C Bldg. E,F,G,H Domestic UG tank + Flushing +Gardening UG tank Capacity : 322 KLD Fire UG tank Capacity: 20 KLD Location of the UG Tank – Near Bldg. H
35.Storm water drainage	**Natural water drainage pattern:**	From South to North
	Quantity of storm water:	2.6 Cum/min
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	425
	STP technology:	MBBR
	Capacity of STP (CMD):	One and 425 KLD
	Location & area of the STP:	Near Open Space
	Budgetary allocation (Capital cost):	77.50 lacs
	Budgetary allocation (O & M cost):	10.75 lacs per annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Concrete waste:67 Cum,Reinforcement Steel Scrap:75MT,Brick debris:130.5 Cum,Cement bag:250000bag,Tiles waste:2000Sqm,Glass Waste:21 sq.m ,Paint cans :5000 drums
	Disposal of the construction waste debris:	Keep seperate for Reuse
Waste generation in the operation Phase:	**Dry waste:**	648 kg/day
	Wet waste:	935 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	35.68 Kg/day
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recyclers
	Wet waste:	Treated in Smart Drum Composting System
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dried sludge from STP will be used as manure.
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Near building H
	Area for the storage of waste & other material:	51 sq.m.
	Area for machinery:	12 X 2 Sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25.75 lacs
	O & M cost:	5.79 lacs /annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	3070.18 m2
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	202 nos.
	List of proposed native trees :	Sr. No. Botanical name Common Name Nos. Characteristics & Ecological Importance 1 Lagersrtromia Speciosa Lagersrtromia Pink 29 Ornamental & roadside, prevents soil erosion, reforestation of degraded hills, lands 2 Bauhinea Purpurea Kanchan 48 Ornamental value, avenue tree, medium shady tree, fast growing, deep root 3 Terminalia cattapa Indian Almond tree 87 Prevents soil erosion, shade & ornamental, roadside, drought tolerant, fast growth about 1m/year 4 Plumeria Alba Champa, White 5 Attractive
	Timeline for completion of plantation :	Six 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	Lagersrtromia Speciosa	Lagersrtromia Pink	29	Ornamental & roadside, prevents soil erosion, reforestation of degraded hills, lands
2	Bauhinea Purpurea	Kanchan	48	Ornamental value, avenue tree, medium shady tree, fast growing, deep root
3	Terminalia cattapa	Indian Almond tree	87	Prevents soil erosion, shade & ornamental, roadside, drought tolerant, fast growth about 1m/year
4	Plumeria Alba	Champa, White	5	Attractive to bees, butterflies & birds, very ornamental
5	Cassia Fistula	Golden shower tree	9	Extremely showy
6	Michelia Champaka	Soan chafa	4	ornamental, near temples, roadside, soil improver
7	Azadirachta indica	Neem	15	Roadside, Medicinal
8	Syzygium cumini	Jamun	5	Roadside
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)	150 kW
	DG set as Power back-up during construction phase	160 kVA
	During Operation phase (Connected load):	2949 kVA
	During Operation phase (Demand load):	2564 kVA
	Transformer:	5 no.- 630 kVA
	DG set as Power back-up during operation phase:	250 kVA x 1 no. and 380 kVA x 1 no.
	Fuel used:	LSD
	Details of high tension line passing through the plot if any:	Yes ,Near plot boundry

48.Energy saving by non-conventional method:

Solar water heating
• Area/street/landscape lighting(part) using LED lamps
• Constant monitoring of energy consumption, Energy monitoring will be done with the help of Energy meters

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Using Solar hot water and Gyser	22.1%
2	Using LED Light Fixture Saving	0.8 %
3	Total	22.9%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	134.91 lacs
	O & M cost:	3.35 lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Constrcuction Phase	Personnel Protective Equipment	5
2	Constrcuction Phase	Site Sanitation Facility	5
3	Constrcuction Phase	Drinking water facility, water sprinkling	10

4	Constrcuction Phase	Solid waste management	12
5	Constrcuction Phase	Safety railing, platform, ladder, hoist, cranes etc	10
6	Constrcuction Phase	House keeping	2
7	Constrcuction Phase	Health Check	5
8	Constrcuction Phase	Environmental Monitoring	10
9	Constrcuction Phase	Total	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	one	77.50	10.75
2	Rain Water Harvesting	Recharge pit with recharge bore	12.63	0.63
3	Solid Waste Management	organic waste convertor	25.75	5.79
4	Gardening & Landscaping	Plantation of trees	28.40	6.52
5	Electrical Measures	-	134.91	3.35
6	Environment Monitoring	-	17.5	2.00
7	Total	-	296.69	29.04

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:	Not Applicable

Parking details:	**Number and area of basement:**	4592.48 m2 (1 no.)
	Number and area of podia:	4657 m2
	Total Parking area:	10397.48 m2
	Area per car:	Basement-35.33 m2, Stilt - 30.84 m2 & Open-26.09 m2
	Area per car:	Basement-35.33 m2, Stilt - 30.84 m2 & Open-26.09 m2
	Number of 2-Wheelers as approved by competent authority:	1273
	Number of 4-Wheelers as approved by competent authority:	324
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	9.00 & 6.00M.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	Category 8 (a) B2
	Court cases pending if any	Not Applicable
	Other Relevant Informations	The Proposed proposal Considered in 53rd meeting of SEAC-III held from 6th to 9th September 2016
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	11-02-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Applicaion for proposed Residential and Commercial developement project Anshul Kosmas at Survey no. 275 (P)at vill. Boradewadi, taluka-Haveli, Pune Maharashtra by M/S. Anshul Bhosale Realty.

PP submitted their application for prior Environmental clearance for total plot area of 27407.35 Sq. Mtrs, BUA of 71342.31 Sq. Mtrs and FSI area of 32559.93 Sq. Mtrs. PP proposes to construct 8 no. residential & commercial building + 1 club house.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

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.
2) PP to submit water supply NOC.
3) PP to submit energy saving calculations along with terrace area calculations.
4) PP to submit disaster management plan with cost, lightning arrester& list of hospitals.

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for Residential Development with convenient shopping

Is a Violation Case: No

1.Name of Project	Godrej Infinity (Phase I), Godrej Active (Phase II) , Phase III and Phase IV
2.Type of institution	Private
3.Name of Project Proponent	M/s PINNI CO-OPERATIVE HOUSING SOCIETY& SHARAD CO-OPERATIVE HOUSING SOCIETY DEVELOPER- OXFORD REALTY LLP
4.Name of Consultant	Ultratech
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environment Clearance has been obtained for existing project vide letter No. SEAC-III-2015/CR-17/TC-2 dated 04-06-2016 for Plot area of 1,73,800 m2 and built-up area of 3,89,865.74 m2
8.Location of the project	Sr. no. 9 to 14 Hissa no.1/71 Keshavnagar Mundhawa
9.Taluka	Haveli
10.Village	Keshavnagar Mundhawa
Correspondence Name:	Mr.Amandeep Singh
Room Number:	Godrej Eternia "C"
Floor:	10th Floor
Building Name:	---
Road/Street Name:	Old Mumbai Pune Road
Locality:	Wakdewadi ,Shivaji Nagar
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Sanctioned layout bearing no. BHA/816/16-17/Mouze Mundhawa/s.no.9 to 14 hissa no. 1 to 11 & other dated 04/10/2017.
	IOD/IOA/Concession/Plan Approval Number: no. BHA/816/16-17/Mouze Mundhawa/s.no.9 to 14 hissa no. 1 to 11 & other dated 04/10/2017.
	Approved Built-up Area: 326636.30
13.Note on the initiated work (If applicable)	We have initiated the work on site as per the Environment Clearance received vide letter No. SEAC-III-2015/CR-17/TC-2 dated 04-06-2016 for Plot area of 1,73,800m2and built-up area of 3,89, 865.74 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Sanctioned layout bearing no. BHA/816/16-17/Mouze Mundhawa/s.no.9 to 14 hissa no. 1 to 11 & other dated 04/10/2017.
15.Total Plot Area (sq. m.)	173800.00 Sq. m
16.Deductions	3666.45 Sq. m
17.Net Plot area	130151.66 Sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 250004.29 Sq. m
	b) Non FSI area (sq. m.): 192616.49 Sq. m
	c) Total BUA area (sq. m.): 442620.78
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 167121.0 Sq. m
	Approved Non FSI area (sq. m.): 159515.3 Sq. m
	Date of Approval: 04-10-2017
19.Total ground coverage (m2)	44235.0 Sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	34%
21.Estimated cost of the project	17090000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	T1	P1+P2+28	91.3
2	T2	P1+P2+22	74.5
3	T3	P1+P2+22	74.5
4	T4	P1+P2+P3+22	78.1
5	T5	P1+P2+P3+22	74.5
6	T6A	P1+P2+17	59.5
7	T6B	P1+P2+17+Shops	59.5
8	T7	P1+25+Shops	80.1
9	T8	P1+P2+P3+P4+27	90.8
10	T9	P1+P2+P3+P4+27	93.75
11	T10	P1+P2+P3+P4+25	88.1
12	T11	P1+P2+P3+P4+23	88.1
13	T12	P1+P2+P3+P4+27	96.9
14	T13	P1+P2+P3+27	93.4
15	T14	P1+P2+P3+27	93.4
16	T15	P1+P2+P3+P4+27	93.4
17	T16	P1+P2+P3+P4+24	87.9
18	T17	P1+P2+1	11.9

23.Number of tenants and shops	No.of tenaments:3158 No. of shops:38
24.Number of expected residents / users	Residents: 15790 Commercial: 700
25.Tenant density per hectare	220
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: Yerwada Fire Brigade Station Road width : 12 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	Building T1 (2P+28), T2 (2P+22), T3 (2P+22), T4 (3P+22), T5 (3P+22), T6A & B (2P+17) and club house (G)
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):	1388
	Recycled water - Flushing (CMD):	717
	Recycled water - Gardening (CMD):	122
	Swimming pool make up (Cum):	32
	Total Water Requirement (CMD) :	2259
	Fire fighting - Underground water tank(CMD):	900
	Fire fighting - Overhead water tank(CMD):	25 KLD per Tower
	Excess treated water	963
Wet season:	Source of water	Pune Municipal Corporation
	Fresh water (CMD):	1388
	Recycled water - Flushing (CMD):	717
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	32
	Total Water Requirement (CMD) :	2137
	Fire fighting - Underground water tank(CMD):	900
	Fire fighting - Overhead water tank(CMD):	25 KLD per Tower
	Excess treated water	1085
Details of Swimming pool (If any)	Phase I: 243.88 sqm Phase II: 231.00 sqm Phase III: 277.20 sqm	

33.Details of Total water consumed

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

Fresh water requirement	1199	189	1388	180	29	209	1019	160	1179
Domestic	602	115	717	0	0	0	602	115	717
Gardening	102	20	122	102	20	122	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 28.75 m. to 36.88 m. BGL. Rainy Season – 8.50 m. to 18.00 BGL. Winter Season – 18.63 m. to 27.44 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:	No of Recharge pit with bore well: 21 nos.
	Size of recharge pits :	Size of the Recharge bore well: 3m x 3m x 3m
	Budgetary allocation (Capital cost) :	Rs. 87.5 Lakhs
	Budgetary allocation (O & M cost) :	Rs.5 Lakhs/annum
	Details of UGT tanks if any :	Domestic UG Tank Capacity(CUM):1370 Flushing Tank Capacity(CUM):750 Fire UG Tank Capacity (CUM):900
35.Storm water drainage	**Natural water drainage pattern:**	South East to North West
	Quantity of storm water:	1771 Cum/Day
	Size of SWD:	External SWD: River Internal SWD: 1)600(W) mm x 900 (D)mm 2)600(W) mm x 800 (D)mm 3)700 (W) mmx900 (D) mm 4)700 (W) mmx900 (D) mm
Sewage and Waste water	**Sewage generation in KLD:**	1897
	STP technology:	MBBR
	Capacity of STP (CMD):	STP 1 : 480 KLD, STP 2 : 415 KLD, STP 3 : 580 KLD, STP 4 : 580 KLD
	Location & area of the STP:	STP 1: At Phase-I STP 2: At Phase-II STP 3: At Phase-III STP 4: At Phase-IV
	Budgetary allocation (Capital cost):	Rs. 300 Lakhs
	Budgetary allocation (O & M cost):	Rs. 40 Lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	63 Kg/day
	Disposal of the construction waste debris:	This material will be used for back filling and leveling of the plot and remaining will be disposed to authorized sites.
Waste generation in the operation Phase:	**Dry waste:**	2450 Kg/day
	Wet waste:	3618 Kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Not Any
	STP Sludge (Dry sludge):	134 Kg/day
	Others if any:	Not Any

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorised vendor SWACH.
	Wet waste:	Floor to floor collection and segregation of dry and wet waste and collected separately. Wet waste will be treated in an organic waste converter (OWC).
	Hazardous waste:	Will be handed over to authorized vendor
	Biomedical waste (If applicable):	Not Any
	STP Sludge (Dry sludge):	Will be used as manure for landscaping after treatment in OWC.
	Others if any:	Not Any
Area requirement:	**Location(s):**	OWC near the entrance
	Area for the storage of waste & other material:	700 sqm
	Area for machinery:	300 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.50 Lakhs
	O & M cost:	Rs.10 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	625 KVAx 9 nos.	Diesel 70 lit/hr	9	Min 3 m above DG set	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	--	70 litres/hr	70 litres/hr

41.Source of Fuel	Authorized vendor
42.Mode of Transportation of fuel to site	By Road

43.Green Belt Development	**Total RG area :**	18344.72
	No of trees to be cut :	19
	Number of trees to be planted :	No of trees to be transplanted: 42
	List of proposed native trees :	As mentioned 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	Aegele marmelos	Bael	Small deciduous tree with edible fruits that attracts birds	30
2	Albizia lebbeck	Shirish	Shade giving tree with a large canopy, Nitrogen Fixing tree.	50
3	Angoeissus latifolia	Dhawda	Medium sized deciduous tree with fruits that attract birds.	20
4	Anthocephalus kadamba	kadamba	Evergreen tree with large canopy and fragrant flowers.	50
5	Azardirachta indica	Neem	Shady, Fast growing, large evergreen tree with white fragrant flowers	50
6	Bauhinia purpurea	Kanchan	Small, deciduous tree with pink fragrant flowers, attracts butterflies	40
7	Butea monosperma	Flame of Forest	Large canopy tree with beautiful orange flowers and medicinal properties	40
8	Cassia fistula	Golden shower tree	Medium, fast growing deciduous tree with yellow flowers, acts as butterfly host	50
9	Cassia nodosa	Pink Casia	Large canopy tree with showy, birds and butterflies attracting flowers	50
10	Caryota urens	Fishtail Palm	Tall growing palm, attracts birds , good for roadside planting	30
11	Cordia gharaf	Gondan	Small deciduous tree with edible fruits that attracts bird	30

12	Crataeva religiosa	Varun	Medium canopy tree which comes along river	20
13	Dalbergia lanceolaria	Takoli	Small deciduous tree with edible fruits that attracts birds	30
14	Erythrina indica	Pangara	Large canopy tree with beautiful red flowers.	50
15	Ficus benghalensis	Wad	Large canopy tree, forms nesting habitat for birds	5
16	Ficus glomerata	Umber	Large canopy tree, forms food source and nesting habitat for birds.	30
17	Ficus microcarpa	Indian Laurel	Large evergreen tree forming nesting habitat for birds	30
18	Hardwickia binata	Anjan	Large deciduous tree that attracts birds	40
19	Largerstroemia flos reginae	Pride of India	Shady, medium sized tree with beautiful purple flowers. Also known as the State flower tree of Maharashtra.	40
20	Mesua ferrea	Nagkesar	Flowering, medicinal tree with birds and butterflies attracting flowers	40
21	Michelia champaca	Champak tree	Shady, medium sized evergreen tree with fragrant yellow flowers. Acts as a butterfly host.	50
22	Millingtonia hortensis	Indian cork tree	Shady, Large, evergreen tree with white fragrant flowers	50
23	Mimusops elengi	Bakul	Large evergreen tree with fragrant flowers, attracts bees, birds	50
24	Moringa oleifera	Drumstick Tree	Edible vegetable, Nitrogen Fixing tree.	30
25	Ougeinia oojeinensis	Sandan	Large deciduous tree with beautiful flowers that attracts birds	30
26	Plumeria alba	Frangipani White	Small, evergreen, ornamental tree with white frangrant flowers	50
27	Pongamia pinnata	Karanj	Large deciduous tree that attracts birds	40
28	Putranjiva roxburghii	Putranjiva tree	Shady, medium sized tree with drooping form.	40

29	Salix tetrasperma	Indian willow	Shady, medium sized tree. And good nesting habitat and food source for birds and good riparian tree	30
30	Saraca indica	Sita ashok tree	Shady, medium sized tree with red and yellow flowers	40
31	Sesbania grandiflora	Agati	Beautiful flowers, Nitrogen Fixing tree	30
32	Tamarindus indica	Tamrind	Long lived tropical evergreen tree with a spreading crown and evergreen foliage, with brown sticky fruit of sour taste	40
33	Terminalia bellirica	Beheda	Large deciduous tree, that attract birds	40
34	Terminalia catappa	Indian almond tree	Shady, medium sized tree. Forms its canopy like an umbrella. And good nesting habitat and food source for birds	50
35	Polyalthia longifolia	Ashok Tree	Evergreen tree with rounded canopy, draught tolerant, very graceful with its downward-sweeping branchlets and shining foliage.	5
36	Semecarpus anacardium	Biba	Moderate-sized medicinal deciduous tree, used as substitute for marking ink for clothes.	10
37	Tectona grandis	Teak	Tall deciduous tree, strong tree with massive crown, grows in all soil types	5
38	Cananga odorata	Chapha	Flowering, fragrant flowers and leaves, evergreen tree that attracts brids.	30
39	Cassia siamea	Kassod Tree	Shady, evergreen, attracting birds, good for screening, quick growing.	40
40	Bauhinia sulphurea	Bauhinia yellow	Auspicious, flowering, attracting bees and butterflies, quick growing, upright tree.	50
41	Bauhinia tomentosa	Bell bauhinia	Quick growing, abundantly flowering, attracting bees and butterflies, good for hedges.	55
42	FRUIT TREES	--	--	--

43	Annona squammosa	Custard Apple	Deciduous tree grows well in warm climatic conditions, can tolerate long periods of dry weather.	25
44	Artocarpus integrifolia	Jackfruit	Nesting habitat for birds. Dense foliage creates nice shade under it.	20
45	Artocarpus altilis	Breadfruit	Large tree, nesting habitat for birds and bears ample fruits during season.	30
46	Citrus medicalimonia	Lemon	Regular, juicy lemon, attracts beas and butterflies, thorny in nature.	10
47	Citrus reticulata	Orange	Plants require maximum sunlight to flower and fruit properly, thorny in nature.	10
48	Cocos nucifera	Coconut Tree	Known as Kalpataru - since every part of the tree is used, salt tolerant.	40
49	Emblica officinalis	Aawala	Small deciduous tree that bears medicinal fruits.	50
50	Ficus carica	Anjeer	Delicious variety. Attracts a lot of birds. Needs a sunny location and less water.	40
51	Mangifera indica	Royal Mango	Mangoes are the kings of the tropical fruit, evergreen with dense canopy. They are delicious, nutritious and wholesome.	45
52	Manilkara zapota	Chickoo	A real tasty variety of Sapota. The tree too is very ornamental and evergreen. One of the easiest to take care of. Plants are slow growing.	35
53	Psidium gujava kg guava	Guava Large Fruited	Owing to its hardy nature, guava is grown successfully in tropical region.	30
54	Punica granatum bhagwa	Pomegranate Bhagwa	Ornamental and healthy fruit, grows well in hot and dry conditions.	30
55	Syzygium cumini	Jamun	Large evergreen tree, nesting habitat for birds and bears ample fruits during season.	30

56	Tamarindus indica red	Tamarind Red	The deep red flesh makes it very attractive. Grafted plants ensure early fruiting.	40
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Alpinia calcarata	0.45	253
2	Alpinia purpurata	0.6	236.5
3	Bauhinia acuminata	0.6	370.75
4	Cordyline terminalis mahatma	0.45	207
5	Crinum asiaticum	0.6	176.75
6	Strelitzia reginae	0.6	158.5
7	Canna x generalis lineata yellow	0.45	270.83
8	Canna x generalis scarlet	0.45	284.67
9	Colocasia esculenta	0.45	235.33
10	Cordyline compacta	0.45	202.83
11	Ixora sunkit hybrid orange	0.45	317.50
12	Ixora sunkit hybrid yellow	0.45	290.83
13	Acorus calamus	0.3	206.625
14	Alternanthera bettzickiana green	0.3	150.625
15	Alternanthera versicolor	0.3	179.125
16	Aptenia cordifolia	0.3	165.25
17	Ophiopogon japonicus kyoto dwarf	0.3	180.875
18	Rhoeo spathacea compacta	0.3	118.75

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	70725 kVA
	During Operation phase (Demand load):	16741 kVA
	Transformer:	PH-1 : 14 x 630kVA PH-2 : 11 x 630kVA PH-3 : 11 x 630kVA
	DG set as Power back-up during operation phase:	PH-1: 1x625 + 2x700 kVA PH-2 : 3x625kVA PH-3 : 3x625kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

1.Green Area - Landscape
2.Street Light
3.Parking (Light + Socket) Building Façade, Building Periphery, Corridor & Staircase Lighting
4.Club House
5. Solar Water Heater

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Green Area - Landscape	34%
2	Street Light	44%
3	Parking (Light + Socket) Building Façade, Building Periphery, Corridor & Staircase Lighting	53%
4	Club House	4%
5	Solar Water Heater	27%

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.347 Lakhs
	O & M cost:	Rs.15 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	--	Water For Dust Suppression	1.80
2	--	Air & Noise monitoring	0.72
3	--	Tanker water for construction	2.40
4	--	Water monitoring	0.60
5	--	Gardening	11.32
6	--	Disinfection- Pest Control	0.18
7	--	First Aid Facilities	0.18
8	--	Health Check Up	2.40
9	--	Creche for children	3.00
10	--	Labour camp maintenance	0.50
11	--	Personal protective equipment	0.18
12	--	CFL lamps for labor hutments	1.92
13	--	Testing Charges (Lifting machineries)	0.6
14	Total	--	25.8

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	--	300.00	40.00
2	RWH	--	87.5	5.00
3	Environmental monitoring	MoEF approved laboratory	0	83.82
4	Energy	--	347.0	15.0
5	Gardening (Including Transplantation)	--	574.0	57.4
6	Swimming Pool	--	150.00	15.00
7	Solid waste management	--	50.00	10.00
8	WTP cost	--	85.00	6.5
9	Solar	--	600.0	80.0

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

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

52.Any Other Information

No Information Available		
53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	--
Parking details:	**Number and area of basement:**	Not Any
	Number and area of podia:	1 Podia/building;Area of the podium=41145.35
	Total Parking area:	112222.37
	Area per car:	35
	Area per car:	35
	Number of 2-Wheelers as approved by competent authority:	4906
	Number of 4-Wheelers as approved by competent authority:	1980
	Public Transport:	Nearest Bus stop
	Width of all Internal roads (m):	6m
	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	B1
	Court cases pending if any	Not Any
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Residential Development with convenient shopping Godrej Infinity(Phase I),Godrej Active(Phase II) ,Phase III and Phase IV at 1/71, Keshavnagar Mundhawa,Tal- Haveli,Pune by M/s Pinni co-oprative housing society & Sharad co-oprative housing society – Oxford Realty LLP.

PP submitted their application for amendment in Environmental clearance for total plot area of 173800 Sq. Mtrs, BUA of 442620.78 Sq. Mtrs and FSI area of 250004.29 Sq. Mtrs. PP proposes to construct 18 no. building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit master layout showing all environmental services.
2) PP to shift the location of UGT,and submit cross section through UGT with top of tank, and maintain some distance above the ground level.
3) 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.
4) For SWD discharge in addition to oil & grease chamber provide green buffer zone before SWD discharge subject to NOC from concern authority.
5) PP to submit all NOC,s i.e. Drainage, Water supply, CFO,E-waste.
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 details of sewer line connectivity up to final disposal point.
8) PP to submit E-Waste NOC.
9) PP to submit NOC from respective authority for drainage connection.
10) PP to submit revised EMP
11) PP to submit tree authority NOC, also submit revised tree list.
12) PP to submit energy saving calculations along with terrace area calculations.
13) PP to submit debris management plan.considering excesses earth, top soil,along with NOC from concern owner.
14) PP to submit phase wise programme considering wind direction at site.
15) 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.
16) PP to identify sources of air pollution, PP to include mitigation measures to reduce Air pollution/Noise pollution.
17) 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
18) PP to plant trees which help to increase biodiversity in the premises like fruit bearing trees etc., and insure that no trees/ shrubs that cause allergies to the residents, are planted.

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for "Shiv Kailasa" Proposed group Housing & Commercial Scheme by OM Shivam Buildcon Pvt. Ltd. At Plot No. 242, 241, 238/2, 239, 237/1, 238/1, 247/1, Village -Sondapar, Tehsil- Hingna, District - Nagpur

Is a Violation Case: No

1.Name of Project	"Shiv Kailasa" Proposed group Housing & Commercial Scheme by OM Shivam Buildcon Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	OM Shivam Buildcon Pvt. Ltd.
4.Name of Consultant	Pollution & Ecology Control Services
5.Type of project	Township Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey No. 242, 241, 238/2, 239, 237/1, 238/1, 247/1, Village -Sondapar, Tehsil- Hingna, District - Nagpur, Maharashtra
9.Taluka	Hingna
10.Village	Sondapar
Correspondence Name:	Om Shivam Buildcon Pvt. Ltd.
Room Number:	203/204
Floor:	4th
Building Name:	Gokul Keshav Apartment
Road/Street Name:	Khamla Road
Locality:	Deo Nagar
City:	Nagpur
11.Area of the project	Nagpur Metropolitan Region Development Authority (NMRDA)
12.IOD/IOA/Concession/Plan Approval Number	EE(Metro)B.E-2/7116 Nagpur Dated 22/12/2016
	IOD/IOA/Concession/Plan Approval Number: EE(Metro)B.E-2/7116 Nagpur Dated 22/12/2016
	Approved Built-up Area: 418883.40
13.Note on the initiated work (If applicable)	Work of Clubhouse is initiated for purpose of marketing office.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	1,21,680.00 Sq.m.
16.Deductions	13,398.83 Sq.m.
17.Net Plot area	1,08,281.17 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 3,10,284.00 Sq.m.
	b) Non FSI area (sq. m.): Permissible Balcony (15%) 46,542.60 Sq.m. + Permissible Terrace (20%) 62,056.80 Sq.m. =1,08,599.4 Sq.m.
	c) Total BUA area (sq. m.): 418883.40
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 3,10,284.00 Sq.m.
	Approved Non FSI area (sq. m.): 1,08,599.4 Sq.m
	Date of Approval: 22-12-2016
19.Total ground coverage (m2)	48000 Sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	44.33 %
21.Estimated cost of the project	8000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No 1 (2BHK)	B+S+16 FL	55.80 M.
2	Building No 3 (2BHK)	B+S+16 FL	55.80 M.
3	Building No 4 (3BHK)	B+S+16 FL	55.80 M.
4	Building No 5 (2BHK)	B+S+16 FL	55.80 M.
5	Building No 6 (2BHK)	B+S+16 FL	55.80 M.
6	Building No 7 (2BHK)	B+S+16 FL	55.80 M.
7	Building No 8 (3BHK)	B+S+16 FL	55.80 M.
8	Building No 9 (3BHK)	B+S+16 FL	55.80 M.
9	Building No 10 (2BHK)	B+S+16 FL	55.80 M.
10	Building No 11 (2BHK)	B+S+16 FL	55.80 M.
11	Building No 12 (2BHK)	B+S+16 FL	55.80 M.
12	Building No 13 (3BHK)	B+S+16 FL	55.80 M.
13	Building No 14 (3BHK)	B+S+16 FL	55.80 M.
14	Building No 17 (2BHK)	B+S+16 FL	55.80 M.
15	Building No 2 Bungalow	B+G+4 FL	17.40 M.
16	Building No 15 CLUB HOUSE	G+2 FL	10.05 M.
17	Building No 16 COMMERCIAL	B+S+7 FL	32.40 M.

23.Number of tenants and shops	No. of tenants 2689 and commercial users 2000 nos.
24.Number of expected residents / users	No. of residents/users (Including Commercial & Visitors) : 17177
25.Tenant density per hectare	221
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	15 m. road connected to MIHAN four lane road (30 m.)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m. Turning Radius.
29.Existing structure (s) if any	Work of Clubhouse is initiated for purpose of marketing office.
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**	NMRDA and Existing Well and Borewel
	Fresh water (CMD):	950
	Recycled water - Flushing (CMD):	361
	Recycled water - Gardening (CMD):	85
	Swimming pool make up (Cum):	48
	Total Water Requirement (CMD) :	1444
	Fire fighting - Underground water tank(CMD):	150 KL water tank for each building
	Fire fighting - Overhead water tank(CMD):	15 KL water tank for each building
	Excess treated water	619
Wet season:	**Source of water**	NMRDA and Existing Well and Borewel
	Fresh water (CMD):	950
	Recycled water - Flushing (CMD):	361
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	48
	Total Water Requirement (CMD) :	1359
	Fire fighting - Underground water tank(CMD):	150 KL water tank for each building
	Fire fighting - Overhead water tank(CMD):	15 KL water tank for each building
	Excess treated water	704
Details of Swimming pool (If any)	2 Swimming pools are proposed area of each = 450 Sq.m. total 900 Sq.m.	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	00	1444	1444	00	323	323	00	1121	1121
Gardening	00	85	85	00	85	85	00	00	00

Fresh water requirement	00	998	998	00	238	238	00	760	760

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4.5 - 6 m Depth of Ground water level
	Size and no of RWH tank(s) and Quantity:	Not Provided
	Location of the RWH tank(s):	Not Provided
	Quantity of recharge pits:	20 Nos.
	Size of recharge pits :	2 x 2 x 16 feet
	Budgetary allocation (Capital cost) :	Rs. 500000/-
	Budgetary allocation (O & M cost) :	Rs.40000/- Per Annum
	Details of UGT tanks if any :	20 nos Ground water tanks are provided for domestic use . 110 KL - 4 Nos. UG tanks 135 KL - 2 Nos. UG Tanks 85 KL - 3 Nos. UG Tanks 140 KL - 1 No. UG Tank 55 KL - 1 No. UG Tank Fire Tank 300 KL 1 Tank for Fire and 35 KL for Flushing 300 KL 1 Tank for Fire and 150 KL for Flushing
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drainage will be designed according to contour of the site
	Quantity of storm water:	973.44 cum/day
	Size of SWD:	300 to 1200 mm
Sewage and Waste water	**Sewage generation in KLD:**	1121 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	3 Nos. 500 KLD each, Total Capacity 1500 KLD.
	Location & area of the STP:	With in the plot, 400 Sq. m. each STP , Total 1200 Sq. m. area.
	Budgetary allocation (Capital cost):	Rs. 250/- Lacs
	Budgetary allocation (O & M cost):	Rs. 12 Lacs per annum.

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Solid waste during the construction phase would comprise mainly of excavated soil/murrum, concrete debris with bits and pieces of steel, insulation material for air-conditioning and packaging material.
	Disposal of the construction waste debris:	The generation of wastes during construction phase shall be used in back filling and top soil used for horticulture with due care and precautions and after getting all the NOCs from concerned Authority.
Waste generation in the operation Phase:	**Dry waste:**	2306 kg/day
	Wet waste:	3460 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Yes
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Dry Waste (Non- biodegradable) garbage: Segregated into recyclable and non-recyclable waste and shall be handed over to Grampachayat and dispose through Improvement Scheme.
	Wet waste:	3 nos. of organic waste converters of capacities 800 Kg/day each at earmark area for Solid waste disposal.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry Sludge will be used as manure in the site.
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	With in plot area
	Area for the storage of waste & other material:	Bins will be provided for each building for dray and wet waste separate and earmark area for OWC is 100 sq.m. each
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 65 Lacs for OWC system
	O & M cost:	Rs. 6.00 Lacs per annum.

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	50 KVA DG set 9 Nos.	Diesel	9	3 mtr	0.075	--
2	25 KVA DG set 1 No.	Diesel	1	3 mtr	0.075	--
3	250 KVA DG set 3 Nos.	Diesel	3	6 mtr	0.10	--
4	200 KVA DG set 1 No.	Diesel	1	6 mtr	0.10	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	00	1500 ltr	1500 ltr
41.Source of Fuel		Local suppliers		
42.Mode of Transportation of fuel to site		By Road.		

43.Green Belt Development	**Total RG area :**	12168 Sq. m.
	No of trees to be cut :	None
	Number of trees to be planted :	396 Nos. of trees and 3980 Nos. of shrubs
	List of proposed native trees :	Neem, Mango, Jamun, Siris, Shisam, Bargad, Peepal, Kawath, White Cedar, Karanji, Imli, Gulmohar, Jackfruit, Chiku, Ashok, Badam, Manila Tamrind, Royal Palm and Indian Tulip
	Timeline for completion of plantation :	Not Applicable

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	45	Medicinal tree
2	Magnifera Indica	Mango	45	Fruit giving Large tree
3	Eugenia Jambolana	Jamun	15	Fruit giving, Medicinal tree
4	Albizzialebbeck	Siris	17	Use to treat inflammation and poison.
5	Dalbergiasissoo	Shisam	17	Timber tree, Shade tree
6	Ficusbenghalensis	Banyan	6	Medicinal tree, Spiritual significance
7	Ficusreligiosa	Peepal	11	Medicinal tree, Spiritual significance
8	Limnoniaacidissima	Kawath	11	Fruit giving, Medicinal tree
9	Meliaazedarach	White Cedar	5	Medicinal tree, Timber tree
10	Pongamiapinnata	Karanji	17	Medicinal tree
11	Tamarindus Indica	Imli	11	Fruit giving, Medicinal tree
12	Delonix Regia	Gulmohar	25	Deciduous, Large

13	Artocarpusheterophyllus	Jackfruit	10	Good canopy, Fruit & flower, attracting
14	Manilkarazapota	Chiku	14	semi-deciduous, Medium, tall
15	Sarca Asoca	Ashok	80	semi-deciduous, tall
16	Terminalla catappa	Badam	28	Fruit giving, Medicinal tree
17	Phytocelobiumdulci	Manila Tamrind	6	Medicinal tree
18	Roystonearegia	Royal Palm	22	Deciduous, Large
19	Thespesia Populnea	Indian Tulip	11	Evergreen bushy 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 :**	Maharashtra State Electricity Distribution Company Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	36,067 KW
	During Operation phase (Demand load):	18,033 KW
	Transformer:	630 KVA X 32 Nos. and 315 KVA X 1 No.
	DG set as Power back-up during operation phase:	50 KVA X 9No. , 25 KVA X 1No. , 250 KVA X 3 Nos., 200 KVA x 1 No.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:

Energy Conservation Measures:
? Maximum use of daylight
? Use of energy efficient devices
? Optimum building orientation
? Solar water system for Hot water and solar lighting for common areas of buildings, street light & Club House will be provided for promoting use of
renewable energy resources.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Solar PV System	1092 KW
2	Solar Street Lights	17 KW

3	Energy Efficient LED light (Terrace)	3.5 KW
4	Through Solar Water Heating for 2689 tenements - 1 KW/Tenement	2689 KW
5	Total Energy Saving	3781 KW (percentage saving 20.96% of Max. Demand)

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage Treatment Plant 3 Nos. 500 KLD each.
Solid Waste (Bio-degradable	Not applicable	Organic Waste Converter (OWC)
Air Pollution - Vehicular Movement and DG Set used during power failure only	Not applicable	Green belt Development and Adequate stack for DG Set

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.130.00 Lacs
	O & M cost:	Rs.2.50 Lacs per annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Pollution- Spraying of water – Monthly.	SPM	Rs. 2.50 Lacs
2	Provision of mobile toilet and Temporary Septic Tank & Soak Pit Provided by Contractor	--	Rs. 5.0 Lacs
3	Environment and other related study	--	Rs. 1.00 Lac

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Dense plantation and water sprinklers	Rs. 50.00 Lacs	Rs. 3.50 Lacs
2	Water Pollution	Sewage Treatment Plant 3 Nos. 500 KLD each.	Rs. 250.00 Lacs	Rs.12.00 Lacs
3	Solid Waste	3 Nos. of Organic Waste ConverterOWC	Rs. 65.00 Lacs	Rs.6.00 Lacs
4	Rain Water Harvesting & its facilities.	20 Nos. of RWH pits	Rs.30.00 Lacs	Rs.2.00 Lacs

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site is approachable by Nagpur – Hyderabad NH-7 road through MIHAN Road.
Parking details:	**Number and area of basement:**	16 basement are proposed and Area of Basement is 25,900 Sq.m.
	Number and area of podia:	16 Stilt are proposed and Area of Stilt is 28,680.00Sqm.
	Total Parking area:	Total Parking area is 81230.00 Sq.m.
	Area per car:	As per MOEF & CC norms 25 Sq.m/ Car for Open, 30 Sq.m./Car for Stilt and 35 Sq.m./Car for Basement.
	Area per car:	As per MOEF & CC norms 25 Sq.m/ Car for Open, 30 Sq.m./Car for Stilt and 35 Sq.m./Car for Basement.
	Number of 2-Wheelers as approved by competent authority:	Total Nos. of Scooter : 6068. Total Nos. of Cycle : 3035 .
	Number of 4-Wheelers as approved by competent authority:	Total Nos. of Car : 2190.
	Public Transport:	Not applicable
	Width of all Internal roads (m):	6-15 m. wide Roads
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	No
	Other Relevant Informations	Application for Environmental Clearance the ToR was issued by MoEF and CC.

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-11-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for "Shiv Kailasa" Proposed group Housing & Commercial Scheme by OM Shivam Buildcon Pvt. Ltd. At Plot No. 242, 241, 238/2, 239, 237/1, 238/1, 247/1, Village -Sondapar, Tehsil- Hingna, District - Nagpur by M/s. OM Shivam Buildcon Pvt. Ltd.

PP submitted their application for prior Environmental clearance for total plot area of 121680 Sq. Mtrs, BUA of 418883.40 Sq. Mtrs and FSI area of 310284 Sq. Mtrs. PP proposes to construct 15 no. residential & commercial building + club house & bungalow.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.
2) PP to explore the possibility to use excess treated water.
3) PP to submit revised site specific EMP.
4) PP to submit CFO NOC.

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for M/s Knowledge City Education Pvt. Ltd. & M/s. Oxford Golf & Resorts Pvt. Ltd. proposes to expand "OXFORD CITY" Residential, Educational Institute and Commercial Project at Gat No. 1167 to 1179,1181, 1183 to 1189, 1191 to 1198,1200 to 1204,1206 to 1232, 1241, 1243, 1245, 1246, 1247, 1253, 1259, 1261, 1263 to 1266, 1268 to 1284, 1286 to 1289, 1292, 1298 to 1303, 1317, 1656 to 1660 at village Lavale and Gat No. 23, 34/1, 34/2/1, 34/4b/1, 129/1, 131, 132, 135, 137/1, 137/2, 137/3, 159, 163, 168,

Is a Violation Case: No

1.Name of Project	Oxford City
2.Type of institution	Private
3.Name of Project Proponent	Mr. Haresh Shah
4.Name of Consultant	Pollution and Ecology Control Services
5.Type of project	Township
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 Granted 1.No. 21-154/2006/IA-III date 17 Oct. 2006. 2. No. 21-362/2007/IA-III dated 27 Dec. 2007.
8.Location of the project	Gat No. 1167 to 1179,1181, 1183 to 1189, 1191 to 1198,1200 to 1204,1206 to 1232, 1241, 1243, 1245, 1246, 1247, 1253, 1259, 1261, 1263 to 1266, 1268 to 1284, 1286 to 1289, 1292, 1298 to 1303, 1317, 1656 to 1660 at village Lavale and Gat No. 23, 34/1, 34/2/1, 34/4b/1, 129/1, 131, 132, 135, 137/1, 137/2, 137/3, 159, 163, 168, 199, 200/3 at village Bavdhan Mulshi, Lavale and Bavdhan
9.Taluka	Mulshi
10.Village	Lavale and Bavdhan
Correspondence Name:	M/s. Knowledge City Education Pvt. Ltd. & M/s. Oxford Golf & Resorts Pvt. Ltd.
Room Number:	501
Floor:	4th Floor
Building Name:	Kensington Court
Road/Street Name:	Lane No.5, off North main road
Locality:	Koregaon Park
City:	Pune
11.Area of the project	Pune Metropolitan Regional development Authority (PMRDA)
12.IOD/IOA/Concession/Plan Approval Number	CC issued by PMRDA
	IOD/IOA/Concession/Plan Approval Number: Sanctioned vide No. BMU/Mouje Lavale/S.N. 1168 and others/PN/31/2017-18 dt. 10.04.2018
	Approved Built-up Area: 1545578.96
13.Note on the initiated work (If applicable)	This has been worked out by adding the Built up area of Existing Phase (5,77,828.01Sq.M) and Proposed expansion phase (48,46,595.37 Sq. M). The project proponent has planned to complete the entire project in eight phases. So far construction has been carried out is only 62881.92 Sq.m, which is only 10.88 per cent of the total built up area of the existing phase. Important buildings or edifices constructed in the existence phase are Golf Club Building 4763 Sq.m, Flame University 53618.92 Sq.m. and Avasara School 4500.00 Sq.m.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Yes
15.Total Plot Area (sq. m.)	3857154.00
16.Deductions	220554.83
17.Net Plot area	3636599.17
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 4253512.80
	b) Non FSI area (sq. m.): 1170910.51
	c) Total BUA area (sq. m.): 5424423.31

18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** --
	Approved Non FSI area (sq. m.): --
	Date of Approval: 10-04-2018
19.Total ground coverage (m2)	250747.72 Sq. m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	6.5 % of Total Plot Area and 6.9 % of Net Plot Area
21.Estimated cost of the project	150000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	OCR -1: G1BA	2PD+30	99.90
2	OCR -1: G7	2PD+30	99.90
3	OCR -1: G3D	2PD+30	99.90
4	OCR -1: G4A	2PD+30	99.90
5	OCR -2: N1Cb	3PD+30	99.90
6	OCR -2: N1Da	3PD+30	99.90
7	OCR-2: G3D	3PD+30	99.90
8	OCR-2: MLCP+C8	6	24.00
9	OCR 2: C5	3	15.00
10	OCR 2: CG	3	15.00
11	OCR 2: C7	3	15.00
12	OCR 3: T1, T3	5PD+30	99.90
13	OCR 3: T2,T4,T5,T6,T7	5PD+30	99.90
14	OCR 4: T	2PD+ 30	99.90
15	OCR 5: T	2PD+ 30	90.00
16	OCR 6: BLOCK A	G+3	12.27
17	OCR6: BLOCK B	G+5	25.00
18	OCR 6: BLOCK C	G+3	13.40
19	OCR6: BLOCK D	G+4	15.00
20	OCR6: BLOCK E	G+7	28.15
21	OCR-6 BLOCK F	G+29	99.90
22	OCR 6: LOGHUTS	G+1	6.00
23	OCR 6: EXP CENTER	G+1	9.00
24	OCR-7 +8 TYPE-1	G+2	14.50
25	OCR-7 +8 TYPE-2	G + 2	14.50
26	OCR-7 +8 TYPE-3	G + 2	14.50
27	OCR-7 +8 TYPE-4	G + 2	14.50
28	OCR-7 +8 TYPE-5	G + 2	14.50
29	OCR-7 +8 TYPE-1	G + 2	14.50
30	OCR 9 T	2PD+30	99.90
31	OCR 10 T	2PD+30	99.90
32	OCR 12 T	2PD+30	99.90
33	OCR 13 T	2PD+30	99.90
34	OCR 14 E 1	P+17	60.00

35	OCR 14 E 3	P+17	60.00
36	OCR 15 E 1	P+17	60.00
37	OCR 16 E 1	P+18	55.00
38	OCR 17 E 1	P+17	60.00
39	OCR 17 E 1A	P+17	60.00
40	OCR 17 E 2	P+17	60.00
41	OCR 18 T	2PD+30	99.90
42	OCC- 4 Shed -1	G	7.8
43	OCC- 3 Town Hall	P+ POD + 7	24
44	OCC- 2 C -2	P+ POD + 23	71.40
45	OCA-4 Health Club	P+ 2	15
46	OCA-2 Library Building	P+ 7	24.00
47	OCE -9 Health	P+ 5	18.15
48	OCE-1 A01	G+1	9.45
49	OCE-1 A02	LG+G+3	14.95
50	OCE-1 A03	G+3	12.00
51	OCE-1 A04	G+2	11.25
52	OCE-1 A05	G+3	12.00
53	OCE-1 A06	G+1	9.45
54	OCE-1 A07	G+3	14.85
55	OCE-1 A08	G+1	9.45
56	OCE-1 A09	G+3	14.85
57	OCE-1 A10	G	5.20
58	OCE-1 A11	G+1	13.11
59	OCE-1 A12	G+1	11.10
60	OCE-1 A13	G	4.02
61	OCE-1 A15	G+1	6.90
62	OCE-1 A16	G+1	7.00
63	OCE-1 A17	G+1	7.00
64	OCE-1 A18	G+1	7.00
65	OCE-1 A19	G+1	7.00
66	OCE-1 A20	G	4.50
67	OCE-1 A21+22	G	6.45
68	OCE-1 A23	G	3.45
69	OCE-1 A26 +2	G+3	13.00
70	OCE-1 A27 +2	G+3	13.05
71	OCE-1 A28	G+3	14.95
72	OCE-1 A40	G	4.35
73	OCE-1 A41	G+2	14.81
74	OCE-1 A42	G+3	15.00
75	OCE-1 A46	G	3.45
76	OCE-1 A47	G	3.45
77	OCE-1 A48	G+4	15.00
78	OCE-1 Auditorium	G+1	14.40

79	OCE2:Sport Complex	G+1	10.80
80	OCE2:Executive Education Centre	G+7	24.00
81	OCE2:Hostel 1	G+3	12.00
82	OCE2:Faculty Housing	G+7	24.00
83	OCE 3	0	0
84	OCE 4	0	0
85	OCE -5 Building-1	G+3	14.90
86	OCE -5 Building-2	G+3	14.90
87	OCE -5 Building-3	G+3	14.90
88	OCE -5 Building-4	G+3	14.90
89	OCE -5 Building-5	G+3	14.90
90	OCE -5 Building-6	G+3	14.90
91	OCE7 – Academic Block – A	G+3	15.00
92	OCE7 – Academic Block – B	G+3	15.00
93	OCE6- School 1	G+3	14.90
94	OCE8 – Housing 2A	G+4	16.00
95	OCE8: Housing 3A	G+4	16.00
96	OCE8: Housing D-1 & D-2	G+1	7.00
97	OCU-1 Bus Station	G	5.00
98	OCU-1 Police Station	G	4.20
99	OCU-1 Fire Station	G	5.00

23.Number of tenants and shops	No. of Tenements 18922 (Residential)
24.Number of expected residents / users	275168
25.Tenant density per hectare	50 (permissible 250 per hector)
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m. road developed by project proponent connected to NH-4. Fire station is at distance of 12.0 km. Fire station is proposed in the township.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 mtr
29.Existing structure (s) if any	So far construction has been carried out is only 62881.92 Sq.m, which is only 10.88 per cent of the total built up area of the existing phase. Important buildings or edifices constructed in the existence phase are Golf Club Building 4763 Sq.m, Flame University 53618.92 Sq.m. and Avasara School 4500.00 Sq.m.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	Source of water	Irrigation Department Pune
	Fresh water (CMD):	9230
	Recycled water - Flushing (CMD):	4758
	Recycled water - Gardening (CMD):	2561
	Swimming pool make up (Cum):	9
	Total Water Requirement (CMD) :	16549
	Fire fighting - Underground water tank(CMD):	500 KL
	Fire fighting - Overhead water tank(CMD):	30 Kl
	Excess treated water	4209
Wet season:	Source of water	Irrigation Department Pune
	Fresh water (CMD):	9230
	Recycled water - Flushing (CMD):	4758
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	9
	Total Water Requirement (CMD) :	13988
	Fire fighting - Underground water tank(CMD):	500 KL
	Fire fighting - Overhead water tank(CMD):	30 KL
	Excess treated water	6769
Details of Swimming pool (If any)	AS per Layout plan	

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	336	13652	13988	90	1763	1853	246	11889	12135

Gardening	664	1897	2561	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon depth of Water level 2-5 m
	Size and no of RWH tank(s) and Quantity:	details are given in EIA Report
	Location of the RWH tank(s):	As per contour of the site
	Quantity of recharge pits:	600 Nos.
	Size of recharge pits :	1.5 x1.5 x 2 m
	Budgetary allocation (Capital cost) :	120 Lakhs
	Budgetary allocation (O & M cost) :	10 Lakhs/Annum
	Details of UGT tanks if any :	UGT Name In KLD UGT-1 2170 UGT-2a 710 UGT-2b 830 UGT-3 3140 UGT-4a 870 UGT-4b- 380 UGTb-2 210 UGT-F 400 UGT-V1 90 UGT-V2 90 UGT-V3 90 UGT-G 250 Total 9230 Total : 12 UGWT will be provided.

35.Storm water drainage	**Natural water drainage pattern:**	Storm water drainage will be designed according to contour of the site
	Quantity of storm water:	169263 cum
	Size of SWD:	1200 mm in diameter

Sewage and Waste water	**Sewage generation in KLD:**	12135
	STP technology:	MBBR
	Capacity of STP (CMD):	13 no. Total Capacity 12330 KLD
	Location & area of the STP:	Shown in Layout Plan
	Budgetary allocation (Capital cost):	Rs. 900 Lakhs
	Budgetary allocation (O & M cost):	Rs. 90 lakhs/Annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 Kg/day
	Disposal of the construction waste debris:	Authorized Dealer
Waste generation in the operation Phase:	**Dry waste:**	24990.5 Kg/Day
	Wet waste:	37485.7Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	30 Kg/day
	STP Sludge (Dry sludge):	Yes
	Others if any:	Used Oil
Mode of Disposal of waste:	**Dry waste:**	Dry Waste (Non- biodegradable) garbage: Segregated into recyclable and non-recyclable waste and shall be handed over to Authorized Recycler of PMC.
	Wet waste:	OWC
	Hazardous waste:	Authorized dealer if any
	Biomedical waste (If applicable):	Authorized Dealer
	STP Sludge (Dry sludge):	Dry Sludge will be used as manure for Gardening
	Others if any:	Authorized Vendor
Area requirement:	**Location(s):**	As per shown in Layout Plan
	Area for the storage of waste & other material:	Enmark area is shown in layout plan
	Area for machinery:	1400 Sq.m for OWC setup.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 9 Crores
	O & M cost:	Rs. 90 lacs per annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	7.5-8.5	7.0-7.5	6.5-9.0
2	SS	mg/ltr	150-200	50-100	100
3	BOD	mg/ltr	50-80	10-30	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	ltr/annum	30	100	130	Authorised 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	2625 ltr/day	107 nos.	as per Norms	appropriate as per height.	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	816 ltr/day	1809 ltr/day	2625 ltr/day
41.Source of Fuel		Local Supplier		
42.Mode of Transportation of fuel to site		by Road through Truck Tanker		

43.Green Belt Development	**Total RG area :**	11,19,247.63 Sq.m. (Including Hill slope plantation)
	No of trees to be cut :	350 Nos. approximate)
	Number of trees to be planted :	7500 trees have been planted and As many as 20000 trees have been planned to be planted
	List of proposed native trees :	Neem, Mango, Jambhul, Fig, Amaltas, Bargad, Shisam, Arjuna, Gulmohar, Jackfruit, Chiku, Ashok, Furcurea, Badam, Royal Palm
	Timeline for completion of plantation :	Not Applicable

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	Azardirachtaindica	Neem	3000	Dense , Evergreen
2	FicusBenghalensis	Bargad,(Wad)	150	Large, Dense , Evergreen
3	TerminaliaArjuna	Arjuna	2000	semi-deciduous, Medium
4	PolyalthiaPendula	Ashoka	4000	Evergreen, small
5	MangiferaIndica	Amba	1000	Large, Dense , Evergreen
6	SyzygiumCuminii	Jambhul	1000	semi-deciduous, Medium
7	Cassia Fistula	Amaltas	1500	Evergreen, small
8	DalbergiaLatifolia	Shisam	1000	Large, Dense , Evergreen
9	MicheliaChampaka	SoanChafa	800	Large, Dense , Evergreen
10	Manilkarazapota	Chiku	800	semi-deciduous, Medium, tall
11	FurcrataGigantia	Furcurea	700	succulent garden ornamental.
12	DelonixRegia	Gulmohar	1500	Deciduous, Large
13	Artocarpusheterophyllus	Jackfruit	500	Good canopy, Fruit & flower, attracting
14	FicusBenjamina	Fig	550	Deciduous, Large
15	Roystonearegia	Royal Palm	1500	Deciduous, Large
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 KVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	456 MVA
	During Operation phase (Demand load):	247 MVA
	Transformer:	194 Nos.
	DG set as Power back-up during operation phase:	107 Nos.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	132 KVA line

48.Energy saving by non-conventional method:

Solar Energy Conventional Energy

Sr. No Description Units Saved/ year Energy cost savings/ Year Units Saved/ Day Units / year Energy cost / Year % Energy Saving/yr
(Kw-hr/ year) (Rs./year) (Kw-hr/ Day) (Kw-hr/ year) Rs./year
1 Solar Lighting 43800 306600 120 438000 3066000 10
(for Landscape/Driveway)
2 Still Floor / Staircase 5162706 36138942 14144 17209020 120463140 30
/ Lift Lobby Lighting
3 VFD's on Lifts 4204800 29433600 11520 21024000 147168000 20
4 Solar Panels for Hot Water 2509600 17567200 6875.62 135505000 94535000 19

Total Savings/year (KWH) 11920906 83446342 32660 52176020 365232140 20
Total Savings/ day (Kwh) 32660 228620 142948 1000636

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Lighting (for Landscape/Driveway)	10 %
2	Still Floor / Staircase / Lift Lobby Lighting	30 %
3	VFD's on Lifts	20 %
4	Solar Panels for Hot Water	19 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

Air Pollution –Vehicular Movement and DG Set used during power failure only	Acoustic Covered and Chimney	Every DG set having appropriate Acoustic Cover and Chimney (stack) as per CPCB Norms
Sewage	200 KLD and 300 KLD	11 more STP Total capacity after expansion will be 12330 KLD
Solid Waste (Non Bio-degradable) and Bio Degrdable	Bins are Provided and disposal trough PMC	Bins are Provided and disposal trough PMC and 14 OWC will be installed for Bio-degradable waste.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.4203.00Lakhs
	O & M cost:	Rs.40.00 Lakh per Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	SPM	7.20 (Rs.1500/day for 2 years)
2	Site Sanitation & Safety	mobile toilets	5.50
3	Environmental Monitoring	--	4.50
4	Health & Checkup of Labour	--	2.0
5	TOTAL	--	19.2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Pollution	Sewage Treatment Plant 13 Nos. Total capacity 12330 KLD	900	90
2	Air Pollution Control Management	Water sprinklers, Stacks of appropriate ht shall be provided to DG Set	25	5
3	Solid Waste Management	Organic Waste Converter OWC and bins will be provided	350	35
4	RWH	600 Nos of pits shall be provided	120	10
5	Energy Conservation	Flat Area (2 Light On PV Solar) solar water heaters & Solar Street Light.	4203	40
6	Landscape	Plantation and lac	300	30
7	--	Total	5898	210

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site is approachable by Mumbai-Bangalore NH-4 road through TarRoad Developed by Project Proponent.
Parking details:	**Number and area of basement:**	None
	Number and area of podia:	46 Podium.
	Total Parking area:	817000 Sq. m.
	Area per car:	As per PMRD Norms
	Area per car:	As per PMRD Norms
	Number of 2-Wheelers as approved by competent authority:	87770 Scooter and 87770 Cycles
	Number of 4-Wheelers as approved by competent authority:	27678 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	6-12 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	None
	Other Relevant Informations	Application for Environmental Clearance.

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	18-12-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Residential, Educational Institute and Commercial Project at Gat No. 1167 to 1179,1181, 1183 to 1189, 1191 to 1198,1200 to 1204,1206 to 1232, 1241, 1243, 1245, 1246, 1247, 1253, 1259, 1261,1263 to 1266, 1268 to 1284, 1286 to 1289, 1292, 1298 to 1303, 1317, 1656 to 1660 at village Lavale and Gat No. 23,34/1, 34/2/1, 34/4b/1, 129/1, 131, 132, 135, 137/1, 137/2, 137/3, 159, 163, 168, at village Bavdhan Mulshi, Lavale by M/s Knowledge City Education Pvt. Ltd. & M/s. Oxford Golf & Resorts Pvt. Ltd.proposes to expand "OXFORD CITY"

PP submitted their application for Expansion in existing Environmental clearance for total plot area of 3857154 Sq. Mtrs, BUA of 5424423.31 Sq. Mtrs and FSI area of 4253512.80 Sq. Mtrs.

The proposal was discussed in the committee to ascertain the methodology to be adopted to process various aspects of the activities proposed on the site by the PP and the expected impacts of these activities on the ecology and environment at the project site and its immediate neighbourhood. It was inter alia agreed that we may take up the various activities and examine each one in detail to study the impacts and the effect of the measures adopted by the PP for mitigation of the adverse impacts.

DECISION OF SEAC

The following subjects were identified for examination and discussion with the PP and his team of consultants and advisers. This list is, however, not exhaustive and the SEAC will continue to add issues as these arise during the course of discussions. The efforts of the SEAC will be to examine this project exhaustively to ensure that no aspect of environmental concerns as identified in the current legislations, administrative orders and statutory notifications is left uncovered. It will also be the effort of the SEAC to ensure that communities living in the vicinity of this project are not affected adversely in any manner but on the other hand benefit economically and socially by this development and are over the course of its development incorporated seamlessly into this new community.

1. Land Environment.
2. Ground Water and Water Environment.
3. Air Environment.
4. Noise Management.
5. Energy and Power.
6. Ecology and Biodiversity.
7. Solid Waste Management.
8. Bio Medical Waste Management.
9. Waste Water Management.
10. EMP-Environment Management Cell and Budget.
11. Disaster Management, Fire Fighting and on site Emergency Plan.
12. Socio Economic Issues related to project site.
13. Traffic Management (Traffic Generation and Impact).

Note: The EIA report prepared by the PP will be the reference document for various issues that will be discussed by the SEAC. It may require to be modified at the end of our deliberations in accordance with the requirements of law and facility of implementation of the project to ensure the applicability of the most suitable solutions to meet the required standards.

The committee appraised the project under 8(b) B1 category of EIA Notification, 2006. PP to use model TOR available on the web site of MoEF in addition to the points mentioned below and TOR attached as Annexure - I.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to submit an indemnity bond indemnifying Environment Department, Government of Maharashtra from any legal consequences arises on account of disputes in respect of ownership of the land.
3) To know the present status of environment in the area, baseline data with respect to environmental components air, water, noise, soil, land and biology & biodiversity (flora & fauna), wildlife, socio-economic status etc. should be collected with 15 km radius of the main components of the project/site.
4) PP to include separate chapter on Renewable energy.
5) Energy requirements of the project shall aim at maximum sustainability i.e. Minimal requirement / dependence on the power supplying authorities.
6) PP to explore use of non-buildable areas to install solar panels.
7) PP to include carbon footprint estimations in EIA report.
8) PP to carry out Traffic Impact Study in detail including, a) Traffic Management Plan for the development – Internal circulation with road width. b) Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project. c) Topographic details of roads and intersections. d) Traffic generation per day/peak hour V/c ratio with reference to present capacity of roads, V/c Ratio with reference to future capacity of widened roads. e) Inventory of open spaces for parking as per DCR/area provided/car as per MoEF construction manual. f) Proper drawings and sketches showing road geometry and traffic volume diagrams etc.
9) PP to include site specific executable and auditable EMP along with implementation plan and environmental management cell provision for construction and operation phase in EIA.
10) PP to submit location clearance/ Notification copy issued in the name by the Government development.
11) PP to note that no quarrying and hill cutting will be allowed in the proposed development
12) PP to prepare CSR policy for the areas around the proposed site and ensure seamless integration of existing community in the proposed new township.
13) PP to mark his project area boundary, each village boundary their buffer zone and mark it on the master layout.
14) PP not to use catchment area water either during the construction or operation phase; PP to obtain permission from competent authority for proposed bore wells and dug wells
15) PP to prepare consolidated report on traffic and vehicular pollution as a single chapter in EIA.
16) PP to carry out fugitive dust monitoring by using local meteorological data.
17) 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.
18) PP to submit socio-economic infrastructure details including public transport arrangements on the site.
19) 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.
20) PP to clarify whether any natural water courses passing through the plot; if yes then include steps taken to preserve the same.
21) PP to submit phase wise development plan considering wind rose diagram.
22) PP to submit internal storm water and sewer line arrangements up to final disposal point.
23) PP to submit total run off calculations before and after development.
24) PP to explore possibility to install air modelling station on site during construction as well as operation phase for ambient air quality monitoring.
25) PP to submit plan for disposal of excess treated sewage water disposal.

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 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for Proposed Residential Building Project

Is a Violation Case: No

1.Name of Project	ATUR VALLEY VISTA
2.Type of institution	Private
3.Name of Project Proponent	M/s. Atur Sangtani & Associates
4.Name of Consultant	M/s. Sneha Hi-Tech Products
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	At No. 44, Hissa No.2/1/1, 2/1/2. 2/1/3. 2/2/1, 2/2/3
9.Taluka	Haveli
10.Village	Pisoli
Correspondence Name:	Mr. Rajiv Lalit Sangtani
Room Number:	NA
Floor:	6th Floor
Building Name:	Atur Chambers, 2A
Road/Street Name:	Moledina Road
Locality:	Camp
City:	Pune
11.Area of the project	Project falls under Pune Metropolitan Region Development Authority [PMRDA]
12.IOD/IOA/Concession/Plan Approval Number	PP has applied for revised sanction layout
	IOD/IOA/Concession/Plan Approval Number: PP has applied for revised sanction plan
	Approved Built-up Area: 16200.00
13.Note on the initiated work (If applicable)	PP has completed construction of 13881.31m2 BUA as on date as per previous sanctioned layout
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	12000.00
16.Deductions	18000.00
17.Net Plot area	10200.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 13958.68
	b) Non FSI area (sq. m.): 13246.92
	c) Total BUA area (sq. m.): 27202.60
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)	1208.63
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	11.84
21.Estimated cost of the project	373400000

22.Number of buildings & its configuration

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

1	A	LP+UP+12	42.39
2	B	LP+UP+12	42.39
3	C	LP+UP+12	42.39

23.Number of tenants and shops	144
24.Number of expected residents / users	720
25.Tenant density per hectare	250/Hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Average 9
29.Existing structure (s) if any	PP has constructed B wing of the building and has completed construction of 13881.31m2 as per earlier sanctioned plan
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Grampanchayat & Recycled/Tanker
	Fresh water (CMD):	64.8
	Recycled water - Flushing (CMD):	32.4
	Recycled water - Gardening (CMD):	10.0
	Swimming pool make up (Cum):	0.0
	Total Water Requirement (CMD) :	106.8
	Fire fighting - Underground water tank(CMD):	75
	Fire fighting - Overhead water tank(CMD):	75
	Excess treated water	43.7
Wet season:	**Source of water**	Grampanchayat & Recycled/Tanker
	Fresh water (CMD):	64.8
	Recycled water - Flushing (CMD):	32.4
	Recycled water - Gardening (CMD):	0.0
	Swimming pool make up (Cum):	0.0
	Total Water Requirement (CMD) :	97.2
	Fire fighting - Underground water tank(CMD):	75
	Fire fighting - Overhead water tank(CMD):	75
	Excess treated water	53.3
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	97.2	97.2	NA	9.72	9.72	NA	87.5	87.5
Gardening	NA	10.0	10.0	NA	10.0	10.0	NA	NA	NA
Fresh water requirement	NA	64.8	64.8	NA	6.5	6.5	NA	58.3	58.3

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	20.25 Average in summer
	Size and no of RWH tank(s) and Quantity:	No storage is proposed as harvested water shall be used for ground water recharge only
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	3
	Size of recharge pits :	2.0m x 2.02m x 1.5m
	Budgetary allocation (Capital cost) :	7.5 Lakh
	Budgetary allocation (O & M cost) :	0.15 Lakh
	Details of UGT tanks if any :	PP has proposed UGWT capacity of 250Cum
35.Storm water drainage	**Natural water drainage pattern:**	Yes
	Quantity of storm water:	51.7m3/hr
	Size of SWD:	450mm
Sewage and Waste water	**Sewage generation in KLD:**	87.5
	STP technology:	MBBR
	Capacity of STP (CMD):	100.00 x 1 No.
	Location & area of the STP:	Between Wing A & Wing B
	Budgetary allocation (Capital cost):	34.0Lakh
	Budgetary allocation (O & M cost):	8.63Lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	There shall be generation of construction debris and same shall be used for base course preparation.
	Disposal of the construction waste debris:	Construction debris shall be used for base course preparation.
Waste generation in the operation Phase:	**Dry waste:**	178.00
	Wet waste:	146.00
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	15.00
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed Over to authorized vendors SWACH
	Wet waste:	Through Composting Pits
	Hazardous waste:	Shall be dispose off to the authorized recycler / re processor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as a manure
	Others if any:	NA
Area requirement:	**Location(s):**	Near Wing A & B
	Area for the storage of waste & other material:	30
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2.0Lakh
	O & M cost:	1.5Lakh

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not applicable	Not applicable	Not applicable	Not applicable
2	TSS	mg/l	200-400	Below10	10
3	BOD	mg/l	300-400	100	100
4	COD	mg/l	400-800	250	250

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	D.G. Set	Diesel - 25LPH	1	3	0.1	80

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel - 25LPH	0.0	Diesel - 25LPH	Diesel - 25LPH

41.Source of Fuel	From Market
42.Mode of Transportation of fuel to site	Tanker as and when required

43.Green Belt Development	**Total RG area :**	1200.00
	No of trees to be cut :	NA
	Number of trees to be planted :	NA
	List of proposed native trees :	As mentioned in point number v
	Timeline for completion of plantation :	Plantation shall be done in due course of time of construction of project and it shall take almost 1 year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Keshia Fistola	10	Ornamental plants
2	Boganvilla	Boganvilla	17	Ornamental plants
3	Cocos Nucifera	Coconut	4	Tall Tree, Fruit Bearing Tree Medical Value,
4	Plumeria	Champa	5	Large Evergreen, Dense Flowering, Bird Nesting and shady Tree
5	Blue Bloom	Jackaranda	3	Evergreen Tree, Flowering Plant, Birds attracting,
6	Azadirachta indica	Neem	4	Shady Tree, Birds attracting, medical value
7	Areca Palm	Areca Palm	11	Tall Tree, Birds attracting
8	Phyllonthus Emblica	Aonla, Amla, Avala	16	Fruit Tree, Birds attracting, Fragrance tree Medicine Plant
9	Magnifera Indica	Mango, Amba	11	Large Evergreen, Dense Nesting, Fruit Bearing Tree
10	Swietenia	Mahogany	5	Tall Tree, Birds attracting, Shady Tree, Medical Value, Control Pollution
11	Spathodea Campanulata	African Tulip	6	Large Evergreen, Dense Flowering, Bird Nesting and shady Tree
12	Syzygium Cumini	Syzygium Cumini	8	Evergreen Tree, Fruit Bearing, Birds attracting, Shady Tree, Medical Value, Control Pollution
13	Terminalla Catappa	Indian Almon	12	Straight Tree, Birds attracting, Fruit bearing, medical value
14	Annona Reticulata	Netted Custard Apple [Ramphal]	7	Fruit Tree, Attracting Butterflies & Birds
15	Roystonea Regia	Royal Palms Tree	2	Ornamental Tree, Tall, mini girth
16	Polyalthia Logifolia	Ashoka Tree	10	Evergreen Tropical Tree
17	Bahunia Purpurea	Bahunia Purpurea	7	Evergreen Tropical Tree
18	Pheltophorum Pterocarpum	Yellow Flamboyant	8	Evergreen Tropical Tree
19	Mimosifolia	Jacaranda Mimosifolia	6	Evergreen Tropical 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)	20KW
	DG set as Power back-up during construction phase	30KVA
	During Operation phase (Connected load):	415KW
	During Operation phase (Demand load):	954
	Transformer:	22KV / 630 KVA – 1 No
	DG set as Power back-up during operation phase:	160KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

PP has provided Special Energy Conservation Methods as below:
• Common area lighting with LED bulbs: 41.58KWH
• Solar Water heating system: 14400lit
• Energy efficient pumps.
• Timer for Staircase lighting, Lift Lobby, Parking area and street lights.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar System	25KW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
D.G. Set	Not applicable	PP has proposed acoustic enclosure and adequate stack height

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25.0Lakh
	O & M cost:	3.0Lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	Water for Dust Suppression	1.2
2	Site Sanitation & Safety	Site Sanitation & Safety	4.5
3	Environmental Monitoring	Environmental Monitoring	1.5
4	Disinfection	Disinfection	0.7
5	Health Check up	Health Check up	0.3

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	Rain Water Harvesting	7.5	0.15
2	Sewage Treatment Plant	Sewage Treatment Plant	34.0	8.63
3	Organic Waste Composting	Organic Waste Composting	2.0	0.15
4	Tree Plantation	Tree Plantation	1.0	1.5
5	Energy saving	Energy saving	25.0	3.0
6	Environment Monitoring	Environment Monitoring	0.0	3.0
7	Laying of Storm & Sewer line up to final disposal point	Laying of Storm & Sewer line up to final disposal point	9.75	0.25

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	Number and area of basement:	0
	Number and area of podia:	NA
	Total Parking area:	1483.20
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	216
	Number of 4-Wheelers as approved by competent authority:	72
	Public Transport:	NA
	Width of all Internal roads (m):	9
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Residential Building Project ATUR VALLEY VISTA at At No. 44, Hissa No.2/1/1, 2/1/2. 2/1/3. 2/2/1, 2/2/3, Pisoli,Tal-Haveli,Pune.by M/s. Atur Sangtani & Associates.

PP submitted their application for prior Environmental clearance for total plot area of 12000 Sq. Mtrs, BUA of 27202.60 Sq. Mtrs and FSI area of 13958.68 Sq. Mtrs. PP proposes to construct 3 no. residential building.

DECISION OF SEAC

PP remains absent, hence committee decided to defer the proposal and consider a fresh.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for Amendment in Proposed group hosing scheme 'Aldea Annexo' on S. Nos. 12/16/1 and 12/17/1 at village Mhalunge, Taluka Mulshi, District-Pune

Is a Violation Case: No

1.Name of Project	Aldea Annexo
2.Type of institution	Private
3.Name of Project Proponent	M/s. Puranik Builders Pvt. Ltd.
4.Name of Consultant	Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Previous EC (SEAC-III-2015/CR-66/TC-3) received dated 11th August 2016 for total construction area of 26835.93 sq. m.
8.Location of the project	S. Nos. 12/16/1 and 12/17/1 at village Mhalunge, Taluka Mulshi, District-Pune
9.Taluka	Taluka Mulshi
10.Village	Mhalunge
Correspondence Name:	M/s. Puranik Builders Pvt. Ltd
Room Number:	Puraniks One
Floor:	NA
Building Name:	Kanchan Pushp
Road/Street Name:	Ghodbunder Road
Locality:	Near Suraj Water Park
City:	Thane
11.Area of the project	Pune Metropolitan Regional Development Authority (PMRDA)
12.IOD/IOA/Concession/Plan Approval Number	Amended approval from PMRDA received for total BUA 27417.48 Sq. m
	IOD/IOA/Concession/Plan Approval Number: Letter No. BAIV/ C.R NO. 425/17-18 dated 21/02/2018
	Approved Built-up Area: 27417
13.Note on the initiated work (If applicable)	A and B buildings entirely constructed and P+1 floors of C1 building. C2 and D buildings not yet started. Completed construction area: 10918 sq. m.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	12511 sq. m.
16.Deductions	15% Amenity Space: 1877 sq. m and R.G.
17.Net Plot area	9570.60 sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 15260.43 sq. m.
	b) Non FSI area (sq. m.): 12157.05 sq. m.
	c) Total BUA area (sq. m.): 27417.48
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)	2856.73
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	22.83%
21.Estimated cost of the project	1030000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	Stilt+12 Floors	39.45
2	B	Stilt+12 Floors	39.45
3	C1	Stilt+12 Floors	39.45
4	C2	Stilt+12 Floors	39.45
5	D	Stilt+10 Floors	33.65

23.Number of tenants and shops	Tenements : 354
24.Number of expected residents / users	1770
25.Tenant density per hectare	283
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	A and B buildings completely constructed and Stilt+1 floors of C1 building as per previous EC received
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Mhalunge Grampanchayat
	Fresh water (CMD):	159
	Recycled water - Flushing (CMD):	80
	Recycled water - Gardening (CMD):	7
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	246
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	123
Wet season:	**Source of water**	Mhalunge Grampanchayat
	Fresh water (CMD):	159
	Recycled water - Flushing (CMD):	80
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	239
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	130
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:**	8 M to 12 M
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	4
	Size of recharge pits :	3 M Diameter
	Budgetary allocation (Capital cost) :	13 Lakh
	Budgetary allocation (O & M cost) :	0.26 Lakh/Year
	Details of UGT tanks if any :	Domestic UG tank: 160 m3 Flushing UG tank: 80 m3 Fire UG tank: 300 m3
35.Storm water drainage	**Natural water drainage pattern:**	North to south
	Quantity of storm water:	NA
	Size of SWD:	300 mm wide
Sewage and Waste water	**Sewage generation in KLD:**	207
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. 215 KLD
	Location & area of the STP:	Location: Ground floor; Area: 116.21 sq. m.
	Budgetary allocation (Capital cost):	22.4 Lakh
	Budgetary allocation (O & M cost):	6.48 Lakh/Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Cement bags:8244 nos, Paint container (@20L):825 nos, Scrap metal generated:3MT,Broken tiles: 687 sq. ft.,Aggregates:5MT
	Disposal of the construction waste debris:	Cement bags:Empty bags to be handed over to recycler, Paint container (@20L):To be handed over to recycler, Scrap metal generated: 100 % to be sold for recycling, Broken tiles: Waste tiles to be used for skirting. Broken pieces to be used for china mosaic waterproofing terrace, Aggregates: To be used as a layer for internal roads and building boundary wall.
Waste generation in the operation Phase:	**Dry waste:**	354 kg/ day
	Wet waste:	531 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	20 Kg / day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	This will be handed over to authorized local recyclers.
	Wet waste:	This will be processed in Organic Waste Converter machine to give manure. The manure will be used for landscaping work at the site.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	This will be processed in Organic Waste Converter machine to give manure. The manure will be used for landscaping work at the site
	Others if any:	NA
Area requirement:	**Location(s):**	Ground floor
	Area for the storage of waste & other material:	33.46 Sq m
	Area for machinery:	13.40 Sq m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	6.0 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	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 :**	1251.62 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	Required: 156 nos. Proposed: 170 nos
	List of proposed native trees :	As below.
	Timeline for completion of plantation :	As soon as construction work 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	Bauhinia alba	Kanchan	35	Flowering Plant
2	Murraya paniculata	Kunti	10	Flowering Plant
3	Azardirachta indica	Kadunimba	15	Medicinal Plant
4	Cassia fistula	Bahawa	25	Flowering Plant
5	Lagerstroemia flosregineae	Tamhan	10	Ornamental Plant
6	Polyalthea longifolia	False Ashok	25	Medicinal Plant
7	Caryota urens	Fishtail Palm	20	Ornamental Plant
8	Michelia champaca	Sonchafa	20	Flowering Plant
9	Manilkara zopota	Chickoo	10	Fruit Plant
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	40 Kw
	DG set as Power back-up during construction phase	100 kVa
	During Operation phase (Connected load):	4110 kw
	During Operation phase (Demand load):	1682 kw
	Transformer:	NA
	DG set as Power back-up during operation phase:	1 No X 160 kVa
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Use of T5, CFL Lights
LED light with timer control
Lifts with VFD Drives.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saving 24%	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:**	20.0 Lakh
	O & M cost:	1.0 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 Sprinkling System	0.9
2	Water Environment	Water for construction works and mobile toilets	1.7
3	Noise Environment	Site Barricading	3.6
4	Land environment	Mobile STP	0.6

5	Socio- economic environment	Disinfection- pest control	0.29
6	External infrastructure	Laydown of sewerline upto municipal existing sewerline	2.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	STP	22.4	6.48
2	Solid Waste Management	OWC	6.0	1.5
3	Energy Conservation	Electrical Saving	20.0	1.0
4	Land Environment	Landscaping	12.0	1.2
5	Water Environment	RWH	13.0	0.26

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:	2685.1 Sq m
	Area per car:	12.50 sq. m.
	Area per car:	12.50 sq. m.
	Number of 2-Wheelers as approved by competent authority:	638
	Number of 4-Wheelers as approved by competent authority:	36
	Public Transport:	PMPML buses, MSRTC buses, taxi etc.
	Width of all Internal roads (m):	Minimum 6 M driveways proposed
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a) Category: B
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	17-03-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Amendment in Proposed group hosing scheme 'Aldea Annexo' on S. Nos. 12/16/1and 12/17/1 at village Mhalunge, Taluka Mulshi, District-Pune by M/s. Puranik Builders Pvt. Ltd.

PP submitted their application for amendment in earlier Environmental clearance for total plot area of 12511 Sq. Mtrs, BUA of 27417.48 Sq. Mtrs and FSI area of 15260.43 Sq. Mtrs. PP proposes to construct 5 no. residential building.

DECISION OF SEAC

PP remains absent, hence committee decided to defer the proposal and consider a fresh.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for Proposed Residential Development "Marvel Basilo"

Is a Violation Case: No

1.Name of Project	"Marvel Basilo" . P. Nos. 385 & 386, Plot No. 1, Sangamwadi T. P. Scheme, Ghorpadi, Dist-Pune, State- Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	Marvel Sigma Homes Pvt Ltd.
4.Name of Consultant	ULTRATECH
5.Type of project	Housing
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	At F. P. Nos. 385 & 386, Plot No. 1
9.Taluka	Pune city
10.Village	Pune
Correspondence Name:	Vishwajeet Subash Jhavar
Room Number:	NA
Floor:	6th Floor
Building Name:	Arthavishwa Bldg
Road/Street Name:	Lane- No. 5
Locality:	Koregaonpark
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	CC/0262/14
	IOD/IOA/Concession/Plan Approval Number: CC/0262/14
	Approved Built-up Area: 5377.02
13.Note on the initiated work (If applicable)	Yes, We have constructed two building as per sanction received from PMC which is below 20,000 Sq. m. As per new rule FSI, TDR and paid FSI got increased due to which construction area cross threshold limit.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	6069.27 Sq. m
16.Deductions	220.06 Sq. m (Road widening- 145.30 Sq. m, Encroachment – 74.76 Sq. m)
17.Net Plot area	5849.21 Sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 11963.84 Sq. m
	b) Non FSI area (sq. m.): 14195.01 Sq. m
	c) Total BUA area (sq. m.): 26158.85
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 4272.18 Sq. m
	Approved Non FSI area (sq. m.): 10441.79 Sq. m
	Date of Approval: 29-04-2014
19.Total ground coverage (m2)	747.70 Sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	15%
21.Estimated cost of the project	49000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	B1+B2+P+17	52.35
2	Building B	B1+B2+P+17	52.35
3	LIG Building	P+8	25.65

23.Number of tenants and shops	No. of Tenements: 109
24.Number of expected residents / users	Residential: 623 Nos.
25.Tenant density per hectare	336 Tenant / hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest Fire Station at Yerawda & Width of the road from the nearest fire station to the proposed building -16 m. wide road abutting to site
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9 m.
29.Existing structure (s) if any	Yes, We have constructed two building as per sanction received from PMC which is below 20,000 Sq.m. As per new rule FSI, TDR and paid FSI got increased due to which construction area cross threshold limit.
30.Details of the demolition with disposal (If applicable)	Not any

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	56
	Recycled water - Flushing (CMD):	28
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	103
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	31
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	56
	Recycled water - Flushing (CMD):	28
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	94
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	39
Details of Swimming pool (If any)	• Main Pool (1 nos): 7.6 m X 18.2 m X 1.2 m • Kids Pool (1 nos): 6.4 m X7 m X 0.6 m • Private pool (5 nos): 8.35 m X 3.15m • Total water Requirement in KL: 351 • Water requirement for make up in cum: 10	

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	56	56	0	6	6	0	50	50
Domestic	0	28	28	0	0	0	0	28	28
Gardening	0	9	9	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6.5 bgl Pre Monsoon & 5.5 bgl Post Monsoon
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	2 nos.
	Size of recharge pits :	2 m X 2 m X 2 m below storm water Inlet level with 60 mtr Bore well
	Budgetary allocation (Capital cost) :	2.0 Lacs
	Budgetary allocation (O & M cost) :	0.25 Lacs
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	North to East
	Quantity of storm water:	62 m3/day
	Size of SWD:	450 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	78 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. of 85 KLD
	Location & area of the STP:	As per layout 46.12 m2
	Budgetary allocation (Capital cost):	25 Lacs
	Budgetary allocation (O & M cost):	6.46 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 kg/day
	Disposal of the construction waste debris:	within the site
Waste generation in the operation Phase:	**Dry waste:**	125 kg/day
	Wet waste:	187 kg/day
	Hazardous waste:	not any
	Biomedical waste (If applicable):	not any
	STP Sludge (Dry sludge):	8 Kg/day
	Others if any:	not any

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recyclers
	Wet waste:	Composting machine
	Hazardous waste:	not any
	Biomedical waste (If applicable):	not any
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC.
	Others if any:	not any
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	39.13 Sq. m
	Area for machinery:	20
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	8.15 Lacs
	O & M cost:	5.97 lacs/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Not applicable	HSD 46.2 lit/hr	2 No.	2.5 Mtr above habitable space	125 mm	543 degree C

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	By road

43.Green Belt Development	**Total RG area :**	607 Sq. m
	No of trees to be cut :	0
	Number of trees to be planted :	60
	List of proposed native trees :	60
	Timeline for completion of plantation :	will be done at 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	Albizzia lebbeck	Shirish	10	Its uses include environmental management, forage, medicine and wood.
2	Bahuinia Purpuria	Raktakanchan	10	Bauhinia trees typically reach a height of 6–12 m and their branchesspread 3–6 m outwards, flowering in late winter
3	Azadirichta Indica	Neem	10	Neem products are believed by Siddha and Ayurvedic practitioners to be antihelmenthic, antifungal, antidiabetic, antibacterial, antiviral, contraceptive and sedative.
4	Butea Monosperma	Palas	10	It is used for timber, resin, fodder, medicine, and dye. The wood is dirty white and soft and, being durable under water, is used for well-curbs and water scoops.
5	Syzgium Cumini	Jambhul	10	seeds are used in herbal teas for diabetes used by diabetes patients as it was thought to cure the same
6	Pongamia Pinnata	Karanj	10	Karanja is an important Ayurvedic medicine, used predominantly in skin diseases. Karanja twigs were used as tooth brush in ancient times.
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)	50 KW
	DG set as Power back-up during construction phase	1 Nos. x 62.5 kVA
	During Operation phase (Connected load):	1276 KW
	During Operation phase (Demand load):	696 KW
	Transformer:	1 X 630 kVA
	DG set as Power back-up during operation phase:	1 X 62.5 kVA
	Fuel used:	H.S.D.
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Solar Energy (PV Panels)
Auto. Timer Logic Controller
Electronic VVF drive for Lifts
Solar Water heater

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Energy (PV Panels)	0.68 %
2	Auto. Timer Logic Controller	2.48 %
3	Electronic VVF drive for Lifts	5.25 %
4	Solar Water heater	11.33 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	STP
Emmision	Not applicable	DG set with stack
MSW	Not applicable	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	19.42 Lacs
	O & M cost:	1.17 Lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water For Dust Suppression Air & Noise monitoring	1.08

2	Water Environment	Tanker water for construction Water monitoring	2.76
3	Land Environment	Site Sanitation	2.7
4	Biological Environment	Gardening	1.0
5	Socio- Economic Environment	Disinfection- Pest Control First Aid Facilities Health Check Up Creche for children Personal protective equipment	6.05

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	treatment of sewage	25	6.46
2	RWH	pits	2.0	0.25
3	Landscaping	gardening	25.0	4.25
4	Electrical	energy saving	19.42	1.17
5	OWC	wet garbage tretaement	8.15	5.97
6	Swimming Pool	--	20.0	2.0
7	Basement ventilation and Dewatering	--	6.0	2.0

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Traffic generated from this project will confluent on existing 24m wide road and proposed 18m wide DP Road

Parking details:	**Number and area of basement:**	2 nos, having total area 5030.7 sqm
	Number and area of podia:	0
	Total Parking area:	6993.0 Sq. m
	Area per car:	35
	Area per car:	35
	Number of 2-Wheelers as approved by competent authority:	246
	Number of 4-Wheelers as approved by competent authority:	204
	Public Transport:	NA
	Width of all Internal roads (m):	6 m wide
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Residential Development "Marvel Basilo"at P. Nos. 385 & 386, Plot No. 1, Sangamwadi T. P. Scheme, Ghorpadi,Pune, by M/s.Marvcal Sigma Homes Pvt Ltd.

PP submitted their application for prior Environmental clearance for total plot area of 6069.27 Sq. Mtrs, BUA of 29071.7 Sq. Mtrs and FSI area of 12369.16 Sq. Mtrs. PP proposes to construct 3 no. residential building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit the revised layout of SWD up to final chamber of municipal line.
2) PP to submit revised basement parking layout.
3) PP to submit cross section of ramp showing slop & width .
4) PP to submit revised parking statement.
5) PP to submit basement ventilation plan.
6) PP to submit site specific integrated waste management plan.
7) PP to submit debris management plan.
8) PP to submit CFO NOC.
9) PP to shift the location of UGT,and submit cross section through UGT with top of tank, and maintain some distance above the ground level.
10) PP to submit fire tender movement plan.
11) PP to submit revised EMP.
12) PP to submit water supply NOC.
13) 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.

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for Building Construction Project

Is a Violation Case: No

1.Name of Project	50 Greens & 108 Green Heights
2.Type of institution	Private
3.Name of Project Proponent	Mr. Bhaven Bhaskarbhai Amen
4.Name of Consultant	Mr. Rajesh Shrivastava
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Gat No. 41, Beed Bypass, Aurangabad
9.Taluka	Aurangabad
10.Village	Satara
Correspondence Name:	Mr. Bhaven Bhaskarbhai Amen
Room Number:	-
Floor:	-
Building Name:	Ruchika Arcade
Road/Street Name:	Opp Khadkeshwar Mandir
Locality:	Khadekashwar
City:	Aurangabad
11.Area of the project	Corporation Area
12.IOD/IOA/Concession/Plan Approval Number	Aurangabad Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: 993/2010-2011
	Approved Built-up Area: 45995.26
13.Note on the initiated work (If applicable)	Construction Initiated for Buildings & Bunglows as per sanction plan. Notice u/s -5 of EIA Notification 2006 issued.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	31713 Sqm
16.Deductions	Nil
17.Net Plot area	31713 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 29882.20
	b) Non FSI area (sq. m.): 18142
	c) Total BUA area (sq. m.): 48024.20
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 29882.20
	Approved Non FSI area (sq. m.): 17894.60
	Date of Approval: 16-12-2010
19.Total ground coverage (m2)	9095
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28.68 %
21.Estimated cost of the project	491700000

22.Number of buildings & its configuration

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

1	Building 1	P+7	27
2	Building 2	P+7	27
3	Building 3	P+7	27
4	Building 4	P+7	27
5	Bunglows	G+1	7

23.Number of tenants and shops	No. of Tenements- 158 No. of Shops- 0
24.Number of expected residents / users	Residential Users- 790 Nos Commercial Users- 0 Nos
25.Tenant density per hectare	50 Tenement / hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 M wide
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 M
29.Existing structure (s) if any	Yes
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**	Aurangabad Municipal Corporation
	Fresh water (CMD):	76.68
	Recycled water - Flushing (CMD):	35.55
	Recycled water - Gardening (CMD):	19.05
	Swimming pool make up (Cum):	5.58
	Total Water Requirement (CMD) :	131.28
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	63.21
Wet season:	**Source of water**	Aurangabad Municipal Corporation
	Fresh water (CMD):	76.68
	Recycled water - Flushing (CMD):	35.55
	Recycled water - Gardening (CMD):	0.0
	Swimming pool make up (Cum):	5.58
	Total Water Requirement (CMD) :	112.23
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	82.26
Details of Swimming pool (If any)	Swimming pool = 15m x 6.2m x 1.2m	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	13M
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	Collected in raw water tank
	Quantity of recharge pits:	6 Nos
	Size of recharge pits :	2m x 2m x 3m
	Budgetary allocation (Capital cost) :	Rs. 3.90 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.16 Lac/Annum
	Details of UGT tanks if any :	Domestic UG Tank Capacity = 107 Cum Flushing UG Tank Capacity = 28 Cum Fire UG Tank Capacity = 100 Cum
35.Storm water drainage	**Natural water drainage pattern:**	North to south
	Quantity of storm water:	15856.5 Cum
	Size of SWD:	450 mm to 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	112.23 Cum
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. of 118 KLD
	Location & area of the STP:	Shown on plan
	Budgetary allocation (Capital cost):	Rs.16 Lacs
	Budgetary allocation (O & M cost):	Rs.1.76 Lacs/ Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	2.5 Kg/day
	Disposal of the construction waste debris:	Handed over to authorized agency
Waste generation in the operation Phase:	**Dry waste:**	Rs. 158 Kg/day
	Wet waste:	Rs. 247.52 kg/day
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	10.62
	Others if any:	Na

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):	In- situ Composting
	Others if any:	NA
Area requirement:	**Location(s):**	Shown on Plan
	Area for the storage of waste & other material:	28 Sqm
	Area for machinery:	Considered in above area.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 5.22 Lacs
	O & M cost:	Rs. 1 Lacs / Annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	3175 Sqm
	No of trees to be cut :	Nil
	Number of trees to be planted :	190 Nos
	List of proposed native trees :	Listed below
	Timeline for completion of plantation :	Before completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Nyctanthes arbor-tristis	Parijatak	18	This Small tree has highly fragrant flowers those attract Bees and Butterflies, Fruits attract Birds.
2	Ochna obtusata	Kanak Champa	18	Native, this shrub has yellow fragrant flowers, Host plant for Butterflies.
3	Murraya paniculatum	Kamini/Kunti	18	Native to Western Ghats, this shrub has fragrant white flowers and dense foliage. It is a host plant for Butterflies.
4	Manilkara zapota	Chickoo	16	This small tree attracts Birds and Bees. Edible Fruit.
5	Citrus limon	Lemon	18	This Shrub is used in everyday Cooking and acts as a host plant for Butterflies.
6	Bauhinia racemosa	Apta	18	This Shrub is used in everyday Cooking and acts as a host plant for Butterflies.
7	Mimusops elengi	Bakul	18	Native, Evergreen Foliage and Flowering tree has dense branching, hence good for Wind screening. Flowers are deeply fragrant and attracts birds and Bees.
8	Pongamia pinnata	Karanj	18	Native to Pune, this Deciduous White Flowering tree . Attracts Birds and Arboreal Mammals.
9	Lagerstroemia reginae	Tamhan	18	This Purple Flowering plant is the State flower of Maharashtra.
10	Cassia fistula	Bahava	16	This Flowering and Deciduous tree has beautiful Yellow chandeliers in Summers. Good perching site for Birds.
11	Erythrina variegata	Pangara	14	This Flowering and Deciduous tree has beautiful Yellow chandeliers in Summers. Good perching site for Birds.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	60 KW
	DG set as Power back-up during construction phase	30KVA
	During Operation phase (Connected load):	2327.02 KW
	During Operation phase (Demand load):	981.18 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:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar water heater, Solar street light & PV Generation	0.14 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.36.90 Lacs
	O & M cost:	Rs.0.75 Lacs/Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Water for construction & Labour	Water Requirement	1.60
2	Site Sanitation & Safety	Health & Safety	1.60
3	Environmental Monitoring	Pollution Monitoring & control	1.80
4	Disinfection	Health & Safety	0.50
5	Health Check up	Health & Safety	0.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH Pits	3.90	0.16
2	Sewage Treatment Plant	Waste water treatment	16.00	1.76
3	Organic Waste Composting	Solid waste management	5.22	1
4	Tree Plantation	Landscape development	15.00	1.15
5	Energy saving	Energy conservation	36.90	0.75
6	Environment Monitoring	Pollution control	0.00	1.80

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	9985.6
	Area per car:	12.5 Sqm
	Area per car:	12.5 Sqm
	Number of 2-Wheelers as approved by competent authority:	316 nos
	Number of 4-Wheelers as approved by competent authority:	316 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	9 M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Building Construction Project at Gat No. 41, Beed Bypass, Aurangabad by 50 Greens & 108 Green Heights.

PP submitted their application for prior Environmental clearance for total plot area of 31713 Sq. Mtrs, BUA of 48024.20 Sq. Mtrs and FSI area of 29882.20 Sq. Mtrs. PP proposes to construct 4 no. residential building.

DECISION OF SEAC

PP remains absent, hence committee decided to defer the proposal and consider a fresh.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for " Orabelle " Survey No 122, Orabelle, Opp S. B Patil School, Near Basket Bridge, Ravet , Pune

Is a Violation Case: No

1.Name of Project	" Orabelle "
2.Type of institution	Private
3.Name of Project Proponent	Mr. Pankaj Yeola
4.Name of Consultant	Goldfinch Engineering System Private Limited Plot No. A-288, Road No. 16 Z, Opp. Agriculture Office Bus-stop, Thane Industrial Area, MIDC (Wagle Estate), Thane (W) – 400 604., Maharashtra, India. PH: 91-22-2580 1529/21/46 Accreditation No : NABET/EIA/1518/RA0066
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC obtained for 46355.65 sqm dated 21-02-2015
8.Location of the project	Survey No 122, Orabelle, Opp S. B Patil School, Near Basket Bridge, Ravet , Pune
9.Taluka	Haveli
10.Village	Ravet
Correspondence Name:	---
Room Number:	---
Floor:	---
Building Name:	---
Road/Street Name:	---
Locality:	Ravet
City:	Pimpri Chinchwad
11.Area of the project	Pimpri Chinchwad Corporation
12.IOD/IOA/Concession/Plan Approval Number	PCMC Plan Sanction
	IOD/IOA/Concession/Plan Approval Number: Plan Approval Number: BP/Ravet/30/2017, Dated 31/03/2017
	Approved Built-up Area: 57015.02
13.Note on the initiated work (If applicable)	Yes, EC obtained for 46355.65 sqm dated 21-02-2015
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NO
15.Total Plot Area (sq. m.)	21550.00 sq.mt.
16.Deductions	5551.86 sq.mt.
17.Net Plot area	15998.14 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 29580.12 sq.mt.
	b) Non FSI area (sq. m.): 27434.90 sq.mt.
	c) Total BUA area (sq. m.): 57015.02
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 29580.12 sq.mt.
	Approved Non FSI area (sq. m.): 27434.90 sq.mt.
	Date of Approval: 31-03-2017
19.Total ground coverage (m2)	3417.98 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21.63%
21.Estimated cost of the project	30000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A+B	P+12	35.70 m
2	C+D	P+12	35.70 m
3	E+F	P+11	32.72
4	G+H	P+11	35.90

23.Number of tenants and shops	Tenements – 508 nos Shops = 30 Nos
24.Number of expected residents / users	2697
25.Tenant density per hectare	456.61/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest fire station distance 4.4 km (Fire feighting truck and service)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Yes , As per prious EC
30.Details of the demolition with disposal (If applicable)	NO

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	231.74
	Recycled water - Flushing (CMD):	118.2
	Recycled water - Gardening (CMD):	15.00
	Swimming pool make up (Cum):	---
	Total Water Requirement (CMD) :	364.94
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25 Each
	Excess treated water	181.74
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	231.74
	Recycled water - Flushing (CMD):	118.2
	Recycled water - Gardening (CMD):	---
	Swimming pool make up (Cum):	---
	Total Water Requirement (CMD) :	349.94
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25 Each
	Excess treated water	196.74
Details of Swimming pool (If any)	Total Water Requirement in KLD : 91.79	

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:**	2.5 To 5 m BGL
	Size and no of RWH tank(s) and Quantity:	NO
	Location of the RWH tank(s):	NO
	Quantity of recharge pits:	8 Nos
	Size of recharge pits :	1.5m X 1.5m X 1.5m
	Budgetary allocation (Capital cost) :	4.00 Lacs
	Budgetary allocation (O & M cost) :	1.00 Lacs
	Details of UGT tanks if any :	Domestic UG tank Capacity :350KL Flushing UG tank Capacity :140KL Fire UG tank Capacity : 300KL
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	612.85 m3/hr
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	315
	STP technology:	MBBR
	Capacity of STP (CMD):	340
	Location & area of the STP:	NW Of Plot
	Budgetary allocation (Capital cost):	50.00 lacs
	Budgetary allocation (O & M cost):	9.00 lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	NO
	Disposal of the construction waste debris:	NO
Waste generation in the operation Phase:	**Dry waste:**	508 kg
	Wet waste:	762 kg
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	41.20 kg
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be sent for recycling to agency Swatch
	Wet waste:	Wet waste will be converting to composting for by OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP sludge sent to SWM site for converting in to compost
	Others if any:	NA
Area requirement:	**Location(s):**	N Of The Plot
	Area for the storage of waste & other material:	---
	Area for machinery:	50 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15.5 lacs
	O & M cost:	1.84 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 :**	1777.57
	No of trees to be cut :	NA
	Number of trees to be planted :	223
	List of proposed native trees :	List Given Below
	Timeline for completion of plantation :	1 Year Before Complition Of Work

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Manikara zapota	Chikoo	19	Tropical fruit tree & bird attracting tree
2	Michelia champaca	Champa	20	Evergreen timber plant, ornamental,
3	Mimusopes elengi	Bakul	18	Evergreen tree, timber yielding and medicinal plant
4	Ficus benjamina	Weeping fig	20	Evergreen & bird attracting tree
5	Cassia fistula	Golden shower	18	Drought tolerant, ornamental & medicinal plant
6	Butea monosperma	Flame tree	20	Used in pesticide & dye preparation,
7	Cassia grandis	Pink shower	17	Drought tolerant, ornamental & medicinal plant
8	Saraca indica	Sita ashok	19	Evergreen medicinal plant
9	Roystonea regia	Royal palm	18	Nitrogen fixer, ornamental plant
10	Syzygium cumini	Jambhul	18	fruit tree & bird attracting
11	Neolamarkia cadamba	Kadamba tree	17	Tropical fruit tree & bird attracting tree
12	Mangifera indica	Mango tree	19	Evergreen & 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	Duranta erecta	---	---
2	Duranta repens	---	---
3	Nerium oleander	---	---
4	Nerium oleander	---	---
5	Nerium oleander	---	---

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30KW
	DG set as Power back-up during construction phase	1 nos. x 40 KVA
	During Operation phase (Connected load):	2470 KW (2745 KVA)
	During Operation phase (Demand load):	1132 KW (1258 KVA)
	Transformer:	22 KV /2 nos. x 630 KVA
	DG set as Power back-up during operation phase:	1 nos. x 250 KVA + 1 nos. x125 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 Water Heating Systems Will Be Done For Bathrooms.
2 Solar lights will be provided for common amenities like Street lighting & Garden lighting.
3 CFL & LED based lighting will be done in the common areas, landscape areas, signage's, Entry gates and boundary compound walls etc.
4 Auto Timer Switches will be provided for Street lights, Garden lights, Parking & staircase Lights & Other Common Area Lights, for saving electrical energy.
5 Water Level Controllers with Timers will be used for Water Pumps.
6 To create awareness to end consumer or flat owner, for using energy efficient light fittings like CFL, T5 Lamps & LED Lights.
7 Energy Saving Achieved per Day – 27168 KWH
8 Annual Savings with energy efficient equipments is 7%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	TOTAL Annual Savings in KWH for Solar Power, Hot Water & LED Lighting Details	7.00%

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:**	62.00 Lacks
	O & M cost:	1.24 Lacks / year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, water, Noise, Soil	Post Project Environment Monitoring	0	0.125
2	Water	Rainwater Harvesting	4.00	1.00
3	Wastewater	Sewage Treatment Plant	50.00	9.00
4	Municipal Solid waste	Solid waste Management	15.50	1.81
5	Plantation	Landscaping	15.35	0.91
6	Energy	Energy Savings	62.00	1.24

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:	No

Parking details:	**Number and area of basement:**	No
	Number and area of podia:	---
	Total Parking area:	12774.6 Sq.mt.
	Area per car:	30.00 sq.mt.
	Area per car:	30.00 sq.mt.
	Number of 2-Wheelers as approved by competent authority:	1055 Nos
	Number of 4-Wheelers as approved by competent authority:	268 Nos
	Public Transport:	Available near to side
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for " Orabelle " Survey No 122, Orabelle, Opp S. B Patil School, Near Basket Bridge,Ravet , Pune by Mr. Pankaj Yeola.

PP submitted their application for expansion of earlier Environmental clearance for total plot area of 21550 Sq. Mtrs, BUA of 57015.02 Sq. Mtrs and FSI area of 29580.12 Sq. Mtrs. PP proposes to construct 4 no. residential building (wings).

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit six monthly compliance reports.
2) PP to submit comparative statement for all environmental parameters.
3) PP to submit revised RG drawing
4) PP to provide mandatory RG area on virgin land and submit the drawing with calculations and submit revised RG Drawing.
5) PP to submit statement showing parking requirement earlier & parking requirement now also indicate where the extra parking accommodate.
6) PP to submit copy of approved plan along with CC.
7) PP to submit revised Drainage NOC.
8) PP to submit approved plan for slab provide for parking.
9) 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.

FINAL RECOMMENDATION

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

Agenda for 67 th Meeting of SEAC-3 (Day-4)

SEAC Meeting number: 67 **Meeting Date** August 22, 2018

Subject: Environment Clearance for Environment Clearance for Building and Construction Project

Is a Violation Case: No

1.Name of Project	Freedom Towers
2.Type of institution	Private
3.Name of Project Proponent	Motiwala Square
4.Name of Consultant	M/s. Building Environment (I) Pvt.Ltd
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	Plot bearing on CTS No. 15184/3, Akashwani Jalna Road
9.Taluka	Aurangabad
10.Village	Aurangabad
Correspondence Name:	Mohammed Ashfaque Mohammed Siddique Motiwala
Room Number:	NA
Floor:	NA
Building Name:	Freedom Tower
Road/Street Name:	Near Akashwani, Jalna Road
Locality:	Akashwani, Jalna road
City:	Aurangabad
11.Area of the project	Aurangabad Municipal Corporation (AMC)
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate issued by Aurangabad Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: AMC/Town planning section/ADTP/243/2018 on dated 21/05/2018
	Approved Built-up Area: 24877.71
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.)	24277.10 Sq.m.
16.Deductions	4872.02 Sq.m.
17.Net Plot area	18870.38 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 38735.6
	b) Non FSI area (sq. m.): 26533.19
	c) Total BUA area (sq. m.): 65268.79
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 24877.71
	Approved Non FSI area (sq. m.): -
	Date of Approval: 21-05-2018
19.Total ground coverage (m2)	8035.27
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	42.58 %
21.Estimated cost of the project	712800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A1 Type	L.P. + U.P. + P + 11	36.00
2	A2 Type	L.P. + U.P. + P + 11	36.00
3	B1 Type	L.P. + U.P. + P + 11	36.00
4	B2 Type	L.P. + U.P. + P + 11	36.00
5	C Type	L.P. + U.P. + P + 11	36.00
6	D Type	P + G + 6	33.98
7	D Type	P + G + 6	33.98

23.Number of tenants and shops	Residential - 220 tenements . Commercial - 158 tenements (28 Showrooms, 130 Offices)
24.Number of expected residents / users	Residential - 1100 nos., Commercial - 1518 nos.
25.Tenant density per hectare	1078
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	Existing Built Up Area – 9283.39 Sq.m. (commercial building) Commencement certificate received dated 10.06.2003 permission no. 131/2003 and occupancy certificate dated 30.11.2007 permission no CA/4039/77.
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**	Aurangabad Municipal Corporation
	Fresh water (CMD):	133.42 CMD
	Recycled water - Flushing (CMD):	99.00 CMD
	Recycled water - Gardening (CMD):	12.00 CMD
	Swimming pool make up (Cum):	0.00
	Total Water Requirement (CMD) :	233.33 CMD
	Fire fighting - Underground water tank(CMD):	300 CMD
	Fire fighting - Overhead water tank(CMD):	120 CMD
	Excess treated water	88.19 CMD
Wet season:	**Source of water**	Aurangabad Municipal Corporation
	Fresh water (CMD):	133.42 CMD
	Recycled water - Flushing (CMD):	99.00 CMD
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	0.00
	Total Water Requirement (CMD) :	221.33 CMD
	Fire fighting - Underground water tank(CMD):	300 CMD
	Fire fighting - Overhead water tank(CMD):	120 CMD
	Excess treated water	100.19 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	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:**	BGL 8 - 10 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	4 nos.
	Size of recharge pits :	2.5 m x 2.5 m x 3 m
	Budgetary allocation (Capital cost) :	12.00 lakhs
	Budgetary allocation (O & M cost) :	1.20 lakhs / year
	Details of UGT tanks if any :	Domestic : Residential : 160 CMD , Commercial : 50 CMD Firefighting : Residential : 250 CMD , Commercial : 50 CMD
35.Storm water drainage	**Natural water drainage pattern:**	East to south and West to South
	Quantity of storm water:	25.97 m3/day
	Size of SWD:	200 mm
Sewage and Waste water	**Sewage generation in KLD:**	199.19
	STP technology:	MBBR
	Capacity of STP (CMD):	2 nos. of STP 1. 140 KLD fo residential and 2. 70 KLD for commercial
	Location & area of the STP:	On Ground Area for STP : 160 Sq.m.
	Budgetary allocation (Capital cost):	140 KLD : 21.00 lakhs , 70 KLD : 16.50 lakhs
	Budgetary allocation (O & M cost):	140 KLD : 7.43 lakhs/year, 70 KLD : 6.77 lakhs/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:	This material shall be used for back filling and levelling of the plot and remaining will be disposed to authorized sites, • Construction debris:- construction waste will be partly reused for backfilling, counterweight of raft, road works and landscaping etc and partly disposed of to designed dumping site
Waste generation in the operation Phase:	**Dry waste:**	448 kg/day
	Wet waste:	482 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	43.38
	Others if any:	E Waste : 2068 kg/year

Mode of Disposal of waste:	**Dry waste:**	Send to authorized vendor
	Wet waste:	Organic Waste Converter
	Hazardous waste:	-
	Biomedical waste (If applicable):	-
	STP Sludge (Dry sludge):	Used as a Manure
	Others if any:	E waste - Send to authorized recycler
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	Residential: 48 Sq.m. & Commercial: 40 Sq.m.
	Area for machinery:	0.65 Sq.mt & 1.5 Sq.mt per machine
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	23.75 Lakhs
	O & M cost:	4.82 lakhs/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG 140 KVA	Diesel - 26.07 liters/hr	1	6 mt.	-	-
2	DG 82.5 KVA	Diesel - 15.23 liters/hr	1	6 mt.	-	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	-	26.07 + 15.23 liters/hr	41.3 liters/hr
41.Source of Fuel		NA		
42.Mode of Transportation of fuel to site		NA		

43.Green Belt Development	**Total RG area :**	2334.46 Sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	188 Nos.
	List of proposed native trees :	Enclosed as Annexure
	Timeline for completion of plantation :	Before 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	MIMUSOPS ELENGI	BAKUL	05	"SHADY TREE, SMALL WHITE FRAGRANT FLOWER"
2	NEOLAMARCKIA CADAMBA	KADAMBA	08	FRUIT BEARING TREE ATTRACTS BIRDS
3	PONGAMIA GLABRA	INDIAN BEECH	09	GOOD MEDICINAL USE
4	BAUHINIA PURPURIA	RAKTA KANCHAN	07	"FRAGRANT FLOWERS OR LEAVES PLANT FOR POOJA EVERGREEN TREE"
5	MICHELLIA CHAMAPAKA	SONCHAPA	10	"FLOWER BUTTERFLY HOST PLANT MEDIUM SIZE EVERGREEN TREE , FRAGRANT YELLOW "
6	LAGERSTROMIA FLOSREGINA	JARUL	07	"CREATES SHADE ATTRACTS BIRDS/BUTTERFLIES/BEES GOOD FOR SCREENING"
7	ALBIZIA LEBBECK	SHIRISH	10	"FRAGRANT FLOWERS OR LEAVES ATTRACTS BIRDS/BUTTERFLIES/BEES DROUGHT TOLERANT"
8	MANGIFERA INDICA	MANGO	10	TALL EVERGREEN TREE WITH FRUIT BEARING
9	ARTOCARPUS HETEROPHYLLUS	JACKFRUIT	06	TALL EVERGREEN TREE WITH FRUIT BEARING
10	SYZYGIUM CUMINI	JAMUN	05	TALL EVERGREEN TREE WITH FRUIT BEARING
11	SARACA INDICA	SITA ASHOK	20	"FRAGRANT FLOWERS OR LEAVES ATTRACTS BIRDS/BUTTERFLIES/BEES DEEP-GREEN, SHINY FOLIAGE"
12	BUTEA MONOSHERMA	PALAS	16	"FRAGRANT FLOWERS OR LEAVES FLOWERS COVERING THE ENTIRE CROWN PLANT FOR POOJA"
13	AZADIRECHTA INDICA	NEEM	13	"PLANT FOR POOJA/EVERGREEN FRAGRANT FLOWERS OR LEAVES QUICK GROVING/INSECT REPELLENT"
14	KHAYA GRANDIS	KHAYA	08	EVERGREEN TREE

15	CASSIA FISTULA	GOLDEN SHOWER	09	"AUSPICIOUS ATTRACTS BIRDS/BEES/BUTTERFILES HANGING OR WEEPING GROWTH "
16	CARYOTA URENS	FISH TAIL PALMS	38	TALL EVERGREEN TREE
17	BOMBAX SEIBA	COTTON TREE	07	"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	JASMINUM AUICULATUM	0.45 M	80.55
2	CESTRUM NOCTURNUM	0.45 M	92
3	OCIMUM TENUIFLORUM	0.45 M	78.50
4	PLUMBAGO ZEYLANICA	0.45 M	82.50
5	NERIUM OLIANDER	0.45 M	94.45
6	TABERNAEMONTANA DIVARICATA	0.45 M	74.00
7	HYMENOCALLIS CARIBAEA	0.30 M	89.95
8	WADELIA TRILOBATA	0.23 M	60.55
9	JASMINUM SAMBAC	0.45 M	67.59

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	50 KVA X 1 NO.
	During Operation phase (Connected load):	3040 KW
	During Operation phase (Demand load):	1773 KW
	Transformer:	630 VA X 3 NO. + 315 KVA X 1 NO.
	DG set as Power back-up during operation phase:	RESIDENTIAL 140 KVA X 1 NO., COMMERCIAL 82.5 KVA X 1 NO.
	Fuel used:	DIESEL
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	ADVANCED (LED) LIGHT FITTINGS	19491 KWH/ANNUM
2	SOLAT PV FOR COMMON LIGHTING	9600 KWH/ANNUM
3	% OF SAVING	27.53 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Substation - 90 Lakhs, DG - 8 Lakhs, Solar PV - 4.0 Lakhs
	O & M cost:	Substation - 4.5 Lakhs, DG - 0.8 Lakhs, Solar PV - 0.4 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	AIR	Erosion control – dust suppression measures and barricading	0.8 Lakh
2	LAND	Site Sanitation –Mobile toilets	0.25 Lakh
3	AIR,WATER,SOIL AND BIO	Environmental Monitoring	0.9 Lakh
4	SOCIO ECONOMIC	Disinfection- Pest Control First Aid Facilities Health Check Up Creches For Children Food for children Personal Protective Equipment	0.25 Lakh

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 nos. of STP 140 & 70 KLD	37.50	14.21
2	Solid waste Management	930 kg/day	23.75	4.82
3	Recharge pits	4 nos.	12.00	1.20
4	Landscaping	188 trees	44.00	-
5	Solar System	Use of Solar Panels for Hot Water.	4.0	0.4

6	Environmental Monitoring	MOEF approved laboratory	-	1.0

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	2 nos. of basement ., Basement - 7218.34 Sq.mt., Lower Basement - 7284.77 Sq.mt.
	Number and area of podia:	1 no. of Podium , 1225.30 Sq.mt.
	Total Parking area:	20235.21 Sq.mt.
	Area per car:	12.5 m
	Area per car:	12.5 m
	Number of 2-Wheelers as approved by competent authority:	Scooter - 235 nos. , Cycle - 235 nos.
	Number of 4-Wheelers as approved by competent authority:	Car - 191 nos.
	Public Transport:	By local bus
	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	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

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Environment Clearance for Building and Construction Project at Plot bearing on CTS No. 15184/3, Akashwani Jalna RoadAurangabad by Freedom Towers.

PP submitted their application for prior Environmental clearance for total plot area of 24277.10 Sq. Mtrs, BUA of 65268.79 Sq. Mtrs and FSI area of 38735.6 Sq. Mtrs. PP proposes to construct 7 no. residential & commercial building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.
2) PP to submit energy saving calculations along with terrace area calculations.
3) PP to submit revised plan showing correct location of OWC.
4) PP to submit cross section through the internal road showing the space left for SWD, plantation of trees and compound wall.

FINAL RECOMMENDATION

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