Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Gangadham Towers by M/s Goel Ganga India Pvt Ltd

Is a Violation Case: No

1.Name of Project	M/s Goel Ganga India Pvt Ltd through Shri. Atul Goel
2.Type of institution	Private
3.Name of Project Proponent	Shri. Atul Goel
4.Name of Consultant	NABET Accredited EIA Consultant
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in Existing EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC received vide letter SEAC-III-2015/CR-71/TC-3 dated 17th October 2016
8.Location of the project	S. No. 578/2
9.Taluka	Haveli
10.Village	Bibvewadi
Correspondence Name:	Shri Atul Goel
Room Number:	-
Floor:	3rd Floor
Building Name:	Sanmahu Complex
Road/Street Name:	Bund Garden Road
Locality:	Camp
City:	Pune
11.Area of the project	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	Sanction Plan Approved by PMC and HRC approval No – CC/0909/2018 Dated 3-7-2018 HRC-dated 9-3-2018 No 9256
	IOD/IOA/Concession/Plan Approval Number: Sanction Plan Approved by PMC and HRC approval No – CC/0909/2018 Dated 3-7-2018 HRC-dated 9-3-2018 No 9256
	Approved Built-up Area: 124864.65
13.Note on the initiated work (If applicable)	CONSTRUCTION OF A AND B Building is in progress as per EC received • Building A - 15 slab RCC is in progress Area completed -13,401.62 sqm • Building B - 6 th slab RCC is in progress, Area completed - 4710.6 sqm • EWS Building – RCC at Plinth level Area completed -437.94 sqm • Podium Level -4127.95 sqm Area south side 1 st to 4th slab Area North side 1 st to 2nd slabs under construction as on 1st August 2018
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	20,798.00
16.Deductions	1,977.94
17.Net Plot area	18,820.06
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 50,641.85
	b) Non FSI area (sq. m.): 74,222.80
	c) Total BUA area (sq. m.): 124864.65
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** -
	Approved Non FSI area (sq. m.): -
	Date of Approval: 03-07-2018
19.Total ground coverage (m2)	2,447.25
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	13%
21.Estimated cost of the project	2731625622

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A Building, 1 number	B1+B2+P1+P2+Podium+26	99.90
2	B Building, 1 number	B1+B2+P1+P2+Podium+26	99.90
3	C Building, 1 number	B1+B2+P1+P2+Podium+26	99.90
4	D Building (EWS), 1 number	P+11	35.90
5	E Building (Commercial), 1 number	P+11	35.97
6	Meditation Hall 1	G	4.5
7	Meditation Hall 2	G	4.5
8	Club House	G+1	7.6

23.Number of tenants and shops	Residential: 314 (260 + 54 EWS) Commercial : 22 offices + 2 meditation halls
24.Number of expected residents / users	Residential: 1570 ,Commercial: 139
25.Tenant density per hectare	167
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m wide road (Nearest Fire Station – Main Fire Station Ghorpadi peth)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min. 12 m
29.Existing structure (s) if any	Not Any
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	155
	Recycled water - Flushing (CMD):	73
	Recycled water - Gardening (CMD):	25
	Swimming pool make up (Cum):	18 (from tanker)
	Total Water Requirement (CMD) :	271
	Fire fighting - Underground water tank(CMD):	300 (Residential + Commercial), 75 (EWS)
	Fire fighting - Overhead water tank(CMD):	20 m3 per building
	Excess treated water	98
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	155
	Recycled water - Flushing (CMD):	73
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	18 (from tanker)
	Total Water Requirement (CMD) :	246
	Fire fighting - Underground water tank(CMD):	300 (Residential + Commercial), 75 (EWS)
	Fire fighting - Overhead water tank(CMD):	20 m3 per building
	Excess treated water	123
Details of Swimming pool (If any)	Dimension Of Swimming pool – • Main pool Size - 27 x 9 x 1.2m (LxWxD). • Baby pool Size - 7 x 9.45 x 0.6m (LxWxD). • Total water requirement- 332 kld • Water requirement for makeup - 10 kld • Details of Plant & Machinery used for treatment of Swimming pool water: Filter, Self Priming pump, • Control panel for pump, Hair and lint strainer, S/F • main drain in white ABS, S/I vacuum point in white • ABS, inlet point in white ABS, overflow grating. Details of quality to be achieved for swimming pool water and parameters to be monitored: pH and Chlorine	

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	172	172	Not applicable	17	17	Not applicable	155	155
Domestic	Not applicable	73	73	Not applicable	7	7	Not applicable	66	66
Gardening	Not applicable	25	25	Not applicable	25	25	Not applicable	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10 to 13m BGL post monsoon
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	Total 10 pits
	Size of recharge pits :	1.2 x 1.2 x 2.5 m depth and recharge bore of 15 m depth
	Budgetary allocation (Capital cost) :	22 lakh
	Budgetary allocation (O & M cost) :	0.66 lakh/annum
	Details of UGT tanks if any :	Residential & Commercial: Domestic 223 KLD Flushing 86 KLD Fire 300 KL EWS: Domestic 36 KLD Flushing 12 KLD Fire 75 KL
35.Storm water drainage	**Natural water drainage pattern:**	As per natural contour
	Quantity of storm water:	2912.74 m3 incremental run-off
	Size of SWD:	650 mm diameter with Slope 1:150
Sewage and Waste water	**Sewage generation in KLD:**	173 (residential + commercial) & 33 (EWS)
	STP technology:	Residential +Commercial: RMBR, EWS: MBBR
	Capacity of STP (CMD):	2 Nos of STPs, Residential and Commercial: 200 KLD, EWS: 35 KLD
	Location & area of the STP:	As per Master layout
	Budgetary allocation (Capital cost):	Residential + commercial: 55.72 lakh & EWS: 9.75 lakh
	Budgetary allocation (O & M cost):	Residential + commercial: 13.11 lakh/annum & EWS: 5.5 lakh/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Domestic waste: 50 Kg/day, Construction waste: Quantity of excavation: 33,519 m3 & quantity to be consumed within site 13,638 m3 remaining quantity will be disposed as per C&D Rules, 2016
	Disposal of the construction waste debris:	Domestic waste will be handed over to local body and excess excavation material will be disposed as per C&D Rules, 2016
Waste generation in the operation Phase:	**Dry waste:**	335 kg/day
	Wet waste:	485 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	10 kg/day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	will be handed over to SWACH
	Wet waste:	Treated within site in Organic waste converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure and rest will be handed over to nursery
	Others if any:	E waste will be handed over to authorised agency
Area requirement:	**Location(s):**	Near Residential and Commercial STP
	Area for the storage of waste & other material:	24.02 sqm
	Area for machinery:	included in above area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	16.40 lakh
	O & M cost:	3.17 lakh/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	2 X 1010 kVA DG set	HSD	1	5	0.015	500C
2	1 X 160 kVA DG set	HSD	1	5	0.015	500C
3	1 X 40 kVA DG set	HSD	1	5	0.015	500C

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		Authorised dealer		
42.Mode of Transportation of fuel to site		by road		

43.Green Belt Development	**Total RG area :**	1,882.00 sqm
	No of trees to be cut :	NA
	Number of trees to be planted :	250
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	Before completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ailanthus excelsa	Maharukh	36	Deciduous , quick growing, shady tree
2	Mangifera indica	Mango	19	Fruit bearing tree, attract birds
3	Anthocephallus cadamba	Kadamb	13	Shady, large tree, ball shaped flowers
4	Eugenia Jambolana	Jambhul	38	Fruit bearing tree, attract birds
5	Michelia Champaca	Son chafa	81	Medium size evergreen tree, fragrant yellow flower
6	Bauhinia racamosa	Apta	12	Deciduous, drought resistant
7	Saraca indica	Sita Ashok	04	Evergreen tree with rounded crown
8	Nyctanthes arbor-tristis	Prajakta	13	Fragrant flowers
9	Plumeria alba	Chapha	02	Hardy plant,Ornamental plant with fragrant flowers
10	Azadirachta indica	Neem	28	Medicinal properties
11	Syzygium cumini	Jam/ Jambhul	04	Fruit bearing tree, attracts birds
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Thevetia nerifolia	0.9 m	375
2	Stachytarpheta sp.	0.45 m	125
3	Plumbago zeylanica	0.45 m	125
4	Acorus calamus	0.3 m	62.5
5	Korphad	0.3 m	62.5
6	Tulas	0.3 m	62.5
7	Kanher	0.3 m	250
8	Jaswanda	0.3 m	187.5

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	40 kW
	DG set as Power back-up during construction phase	125 kVA
	During Operation phase (Connected load):	4805.77 kW
	During Operation phase (Demand load):	1953.31 kW
	Transformer:	• Transformer – A,B,C: 630 KVA X 3 • Transformer – EWS: 150 KVA X 1NO • Transformer – Commercials: 150 KVA X 1NO
	DG set as Power back-up during operation phase:	1010 kVA X 2 nos., 160 kVA X 1 no., 40 kVA X 1 no
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

• Auto Timer control for external & Common lighting
• Use of CFL / LED lamps in all public/ common areas.
• Solar powered water heating. & PV Cells
• Electronic V3F Drives for Elevators

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV & water heating	Timer control, V3F driver lifts

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Solar PV: 112.5 Lakh, solar water heating: 57.06 lakh
	O & M cost:	Solar PV: 3.98 Lakh/annum, solar water heating: 2.92 lakh/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air and water	Dust suppression measures & barricading	27.5
2	Socio	Site Safety	21.34
3	Socio	Site Sanitation	5.86
4	Socio	Disinfection	4.94
5	Socio	health check-up	0.60
6	Environmental monitoring	from MoEF&CC Approved Lab	4.68

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	STP 1	55.72	13.11
2	Sewage	STP 2	9.75	5.5
3	Solid waste	OWC	16.4	3.17
4	Storm Water	RWH System	22.00	0.66
5	Green Belt	Landscape development	27.10	5.56
6	Renewable	Solar PV	112.5	3.98
7	Renewable	Solar Water Heating	57.06	2.92
8	Swimming Pool	Swimming Pool	17.96	3.90
9	EHS	Safety training and awareness	11.7	2.3

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	2 basements having area 17,939.56 sq m
	Number and area of podia:	1 podium having area 8969.78
	Total Parking area:	35,879.12 sq m
	Area per car:	35 sq m for basement and 30 sq m for covered parking
	Area per car:	35 sq m for basement and 30 sq m for covered parking
	Number of 2-Wheelers as approved by competent authority:	738
	Number of 4-Wheelers as approved by competent authority:	1043
	Public Transport:	PMPML Bus stop available
	Width of all Internal roads (m):	12 m internal road
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	Spl. Civil Suit no 828/2013 CJSD and First Civit Appeal Number 837/2013 At High Court Mumbai pending for decision. However, these cases are not related to environment.
	Other Relevant Informations	We have obtained previous EC vide letter SEAC-III-2015/CR-71/TC-3 dated 17th October 2016 and construction work on site is in progress as per EC. Now seeking amendment in EC.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for prior EC for total plot area of 20798.00 m^2, BUA of 124864.65 $m^2$and FSI area of 50641.85 $m^2$and Non FSI area of 74222.80 m^2.

DECISION OF SEAC

The Committee decided to defer the proposal based on the opinion given by Law and Judiciary Department, GoM regarding processing / appraisal of the proposal. It was informed to Committee that further opinion from the Advocate General, GoM is being sought by the Environment Department, GoM.

The Committee decided to **defer** the proposal till the opinion from the Advocate General, GoM is received.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Environment Clearance for Integrated Township at S no 40-47 at Mhalunge taluka-Mulshi Dist Pune by Mahalunge Land Developers LLP

Is a Violation Case: No

1.Name of Project	Environment Clearance for Integrated Township at S no 40-47 at Mhalunge taluka- Mulshi Dist Pune by Mahalunge Land Developers LLP
2.Type of institution	TOR
3.Name of Project Proponent	Mr. Vilas Tambe
4.Name of Consultant	Vke environmental LLP
5.Type of project	Integrated Township
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Environmental clearance has been granted by SEIAA vide no SEAC-2009/CR.71/TC-2 however extension for EC has been obtained for 3 years on 14 dec 2016
8.Location of the project	Survey No 40 to 47of Village Mahalunge Taluka Mulshi Dist Pune
9.Taluka	Mulshi
10.Village	Mahalunge
Correspondence Name:	Mr. Vilas Tambe
Room Number:	-
Floor:	8th Level
Building Name:	Solitaire World
Road/Street Name:	-
Locality:	Opp Regency Classic, Mumbai Banglore Highway, Baner Pune
City:	Pune
11.Area of the project	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: In Process
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	As per earlier EC Phase 1 of Sector R1 completed and Phase II of sector R1 , School building , E1 Retail shopping Building is under construction.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	In Process
15.Total Plot Area (sq. m.)	418297.00 sq m
16.Deductions	NA as Integrated Township Project
17.Net Plot area	418297.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 7,11,100
	b) Non FSI area (sq. m.): 5,57,783
	c) Total BUA area (sq. m.): 1268883
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** In Process
	Approved Non FSI area (sq. m.): In Process
	Date of Approval: 26-06-2018
19.Total ground coverage (m2)	99375
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.75 %
21.Estimated cost of the project	29880000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sector R1-Tower 1, Building A	LB+UB+S+22	69.75
2	Sector R1- Tower 2 Building C and D	P+7	23.95
3	Sector R1-Tower 3 Building C and D	P+7	23.95
4	Sector R1- Tower 4 Building C and D	P+7	23.95
5	Sector R1- Tower 4 Building C and D	P+7	23.95
6	Sector R1 -Tower 5 Building A,B,C and F	S+P+7	26.95
7	Sector R1 -Tower 6 Building D and E	P+7	23.95
8	Sector R1 -Tower 7 Building A,B And C	P+7	23.95
9	Sector R1 -Tower 8 Building D,E	P+7	23.95
10	Sector R1 -Tower 10	LB+UB+S+P+22	69.60
11	Sector R1 -Tower 11	LB+UB+S+P+22	69.60
12	Sector R1 -Tower 12	LB+UB+S+P+22	69.60
13	Sector R1 -Tower 13	LB+UB+S+P+22	69.60
14	Sector R1 -Tower 14	LB+UB+S+P+22	69.60
15	Sector R1 -Tower 15	UB+S+22	69.60
16	Sector R1 -Tower 16	UB+S+22	69.60
17	Sector R1 -Tower 17	UB+S+22	69.60
18	Sector R2- Building A1	S+7	22.95
19	Sector R2- Building B1,C2, E1,E2, E3 and E4	S+P+14	45.90
20	Sector R2- Building C1, D1 and D2	S+P+21	65.85
21	Sector R2 Commercial Building	G+ 1	09.00
22	Sector R3 Tower T1 to Tower T4	S+2P+21	72.00
23	Sector R3 Tower T5 and Tower T6	S+2P+14	51.70
24	Bunglows	G+ 3	14.00
25	Sector R4- Building A	P+9	29.00
26	Sector R4- Building B	P+12	37.70
27	Sector R4- Building C	P+11	34.80
28	Sector R5- Building A and Building B	B+S+P+30	100.00
29	Sector R6 Tower T1 and Tower T2	G+2P+21	74.70
30	Sector R6 Tower T3	B+G+2P+21	74.70
31	Sector R7 Tower T1 to Tower T5	S+2P+21	74.70
32	Sector R8-Building- A, B, C, E, F and G	P+12	37.05
33	Sector R8- Building- D	P+10	31.35
34	Sector E1-Commercial Building	B+LG+UP+3	21.00
35	Sector E2- Retail/ Offices	B+S+G+12	53.20
36	Sector E3- Tower 1 and Tower 2	2B+G+16	68.40

37	Sector E4- Tower 1 and Tower 2	2B+G+16	68.40
38	Sector E5- Retail/ Offices	B+G+5	23.10
39	Hospital	B+G+3	15.00
40	Town hall	B+G+2	15.00
41	Market – Building 1 to Building 4	G + 1	07.35
42	School	G + 5	21.00
43	Fire Station (office)	G+1	09.00
44	Fire Station (residential)	P+4	15.00
45	Sport Complex building A	G+2	14.00
46	Sport Complex building B	B + G	03.50

23.Number of tenants and shops	8737 tenaments , 18 bunglows and 1106 offices/ retail Shops
24.Number of expected residents / users	Residential 43,775 users Commercial 28,959 users
25.Tenant density per hectare	Tenant Density 1046/hec Tenement Density 209/ hec
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Access from 30m Mahalunge Road, Nearest fire station Blue ridge fire station approx. 1 km.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	As per earlier EC Phase 1 of Sector R1 completed and Phase II of sector R1 , School building , E1 Retail shopping Building is under construction.
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**	Mula River Irrigation Department, Govt of Mahatrashtra
	Fresh water (CMD):	4723 m3/day
	Recycled water - Flushing (CMD):	2530 m3/day
	Recycled water - Gardening (CMD):	732 m3/day
	Swimming pool make up (Cum):	5 m3/day
	Total Water Requirement (CMD) :	7990 m3/day
	Fire fighting - Underground water tank(CMD):	2750 m3/day
	Fire fighting - Overhead water tank(CMD):	20000 lit/building
	Excess treated water	3179 m3/day
Wet season:	**Source of water**	Mula River Irrigation Department, Govt of Mahatrashtra
	Fresh water (CMD):	4723 m3/day
	Recycled water - Flushing (CMD):	2530 m3/day
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	5 m3/day
	Total Water Requirement (CMD) :	7258 m3/day
	Fire fighting - Underground water tank(CMD):	2750 m3/day
	Fire fighting - Overhead water tank(CMD):	20000 lit/building
	Excess treated water	3911 m3/day
Details of Swimming pool (If any)	Water requirement for make up : 5kld a) PH-7.0 to 7.6 b)Chlorine Content -0.8 to 1.0 ppm Residual Chlorine in pool c) Disinfection Treatment - With Ozone	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon 12-15 mt bgl Post Monsoon 4 to 5 mt bgl
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	46
	Size of recharge pits :	2m X 1 m X 2m
	Budgetary allocation (Capital cost) :	Rs 46,00,000 /-
	Budgetary allocation (O & M cost) :	Rs 5,00,000 /-
	Details of UGT tanks if any :	Total UGT Capacity of the Project 13640 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:	264 m3/Min
	Size of SWD:	1.5 m dia
Sewage and Waste water	**Sewage generation in KLD:**	6441 KLD
	STP technology:	Engineered Wetland
	Capacity of STP (CMD):	6500 KLD
	Location & area of the STP:	On ground, Sector wise STPs are Provided also ETP of 1 KLD will be provide for health care.
	Budgetary allocation (Capital cost):	Rs 21,80,00,000 /-
	Budgetary allocation (O & M cost):	Rs 1,15,22,000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Dry waste (Kg/day): 60 kg/day -Wet waste (Kg/day): 60 kg/day –Total waste generated: 120 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:**	13152 kg/day
	Wet waste:	16038 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	8
	STP Sludge (Dry sludge):	773 kg/day
	Others if any:	e waste : 140 kg/day

Mode of Disposal of waste:	**Dry waste:**	Will be segregated and handed over to authorized Vendor
	Wet waste:	Wet waste will be treated in Organic Waste Converter, sector wise OWC has been proposed
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Will be segregated and handed to Authorized Biomedical Waste vendor
	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, Sector wise OWCs are Proposed
	Area for the storage of waste & other material:	263 sq m
	Area for machinery:	1074 sq m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 4,20,25,000
	O & M cost:	Rs 86,88,211

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):	0.8
Capacity of the ETP:	1 KLD
Amount of treated effluent recycled :	0.7
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	advance Oxidation Process
Disposal of the ETP sludge	Will be Disposed through authorized vendor

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	RG + CG = 122090 sq m
	No of trees to be cut :	Few Trees exist on site of of which some will be transplanted and rest of the trees will be protected
	Number of trees to be planted :	6275
	List of proposed native trees :	As listed Below
	Timeline for completion of plantation :	Till Operation Phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygium cumini	Jambhul Tree	250	A large size tree with dense foliage provides shade along roads; wood is water resistant and attracts a variety of birds
2	Millingtonia hortensis	Indian cork tree	545	A columnar, evergreen tree, grows well in both dry and moist regions.
3	Lagerstromia flos-regineae	Tamhan	470	State flower tree of Maharashtra. Medium sized tree, beautiful purple flowers, grows well in both dry and humid climate.
4	Pongamia pinnata	Karanj	540	Large tree good for stopping soil erosion along canal banks
5	Azadirachta indica	Neem	550	A medium to large size hardy tree which stand in drought conditions. Air Purifying quality Attain a much larger size in dry regions.
6	Cassia fistula	Bahava	350	SSmall deciduous tree. Excellent bright flowering tree for arid regions.
7	Ficus benjamina	Weeping Fig	240	Medium sized evergreen tree with elegant appearance and moderate water requirement
8	Plumeria alba	Champa	200	Ornamental flowering tree
9	Michelia champaca	Sonchapha	550	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant.
10	Polyathia longifolia	Ashoka	300	Large evergreen tree Effective in decreasing noise pollution
11	Mangifera indica	Mango	250	Large evergreen and fruit bearing tree
12	Albizia lebeck	Shirish	450	Shady, large tree, ball shaped flowers
13	Butea monosperma	Palas	250	Small deciduous. Good for roadside plantation.
14	Psidium guajava	Guava, Peru	150	Small hardy and birds attracting tree.
15	Jacaranda mimosifolia	Jacaranda	350	Medium size gracious deciduous, flowering tree which prefers moderate climate.

16	Khaya senghalis	Khaya	230	Large roadside tree with white sweet scented flowers.
17	Spathodia campanulata	Pichkari	250	A handsome large deciduous tree. Good for roadside plantation
18	Bauhinia purpurea	Rakta Kanchan	350	Small hardy tree with beautiful pink flowers.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Raphis Palm	0.60	125
2	Allamanda yellow	0.45	75
3	Asparagus Sprengeri	0.30	60
4	Ixora red	0.30	75
5	Rhoeo	0.23	50
6	Russelia Red	0.30	50
7	Areca palm	0.60	50
8	Euphorbia carcassana	0.45	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	125 KVA
	During Operation phase (Connected load):	52940 kW
	During Operation phase (Demand load):	39411 kVA
	Transformer:	63 x 630 kva
	DG set as Power back-up during operation phase:	25 x 500 kva, 8 x 400 kva, 4 x 300 kva, 6 x 250 kva, 4 x 140 kva
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	YES

48.Energy saving by non-conventional method:

Total Energy Saving : i.e. (28 % Savings)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	Timers and contactors will be used to switch on / off common are & external landscape and facade lighting.	956180 kWH
2	Light Emitting Diode (LED) will be used for corridors ,Lobbies and common areas.	YES
3	All fluorescent light fixtures are specified to incorporate electronic chokes which have less watt-loss compared to electro-magnetic chokes and result in superior operating power factor. This indirectly saves energy. Electronic chokes also improves life of the fluorescent lamps.	YES
4	Energy efficient cfl/t5/led lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs. LPD of 7.5 W/sq.mtr. in Residential areas & 10.8 W/sq.mtr. in Office areas is proposed.	956180 kWH
5	All cables will be derated to avoid heating during use. This also indirectly reduces losses and improves reliability. To achieve the same we have considered current carrying capacity of all the cables laid through ground/air whichever is minimum.	YES
6	125 Ltrs Solar water is provided for each flat.	13139199 kWH
7	Solar PV panel system is proposed for Street lighting & Building common lighting.	480000 kWH

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 2,00,00,000/-
	O & M cost:	Rs 10,00,000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control, dust suppression measures, top soil preservation	434.60
2	Land	Labour camp toilets & sanitation	28.80
3	Health and safety	Health checkup & Disinfection	2.76
4	Environment Management	Environment management cell	3.00
5	Environmental Monitoring (Per Year)	Air, Water, Noise, Soil, DG set,	2.75
6	Labor Safety Equipment and training	Labor Safety Equipment and training	24.00

b) Operation Phase (with Break-up):

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

1	Sewage treatment plant	STP	2180	115.22
2	Organic waste management	OWC	420.25	86.88
3	Landscaping	Development and Maintenance	305.22	30.52
4	Rain water harvesting	Recharge pits	46.00	5.00
5	Energy	Solor Hot Water & PV panels	200	10.00
6	Environment Monitoring	Air, Noise, Soil, Water, STP /ETP/ WTP treated water, OWC Manure, DG Stack	00	11.50

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

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

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 Mhalunge Area. The development will be accessible from 36m wide Mhalunge road while the internal driveways are 6 m to 30 m
Parking details:	**Number and area of basement:**	51184.08 sq m
	Number and area of podia:	104613.40 sq m
	Total Parking area:	231432 sq m
	Area per car:	12.5 sq m
	Area per car:	12.5 sq m
	Number of 2-Wheelers as approved by competent authority:	18688 Nos
	Number of 4-Wheelers as approved by competent authority:	9303 Nos
	Public Transport:	The Project proposespublic transport li
	Width of all Internal roads (m):	6 m to 36 m

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for amendment in earlier Environmental clearance for total plot area of 418297.00 m2, Total BUA of 1268883 m2 and FSI area of 711100 m2.

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

PP has satisfactorily complied with the points raised in 75th meeting of SEAC-3.

DECISION OF SEAC

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Environment Clearance for Proposed Integrated Township at Gat No. 124, 125,127 to 132, 137 to 142, 144 to 153, 155 to 160, 162 to 164, 166 ,167 ,169,170, 194 at Manjri Khurd, Haveli Taluka, Pune by Ashdan Developers Private Ltd.

Is a Violation Case: No

1.Name of Project	Proposed Integrated Township at Gat No. 124, 125,127 to 132, 137 to 142, 144 to 153, 155 to 160, 162 to 164, 166 ,167 ,169,170, 194 at Manjri Khurd, Haveli Taluka, Pune by Ashdan Developers Private Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vilas Tambe
4.Name of Consultant	VK:e Environmental LLP , Pune
5.Type of project	Integrated Township Project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in Earlier EC, EC Number: SEAC-2010/CR 287/TC-2
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	The project has been granted environmental clearance vide letter SEAC-2010/CR 287/TC-2 , Dated - September 7, 2010, EC Extended till year 2022
8.Location of the project	Gat No. 124, 125,127 to 132, 137 to 142, 144 to 153, 155 to 160, 162 to 164, 166 ,167 ,169,170, 194
9.Taluka	Haveli
10.Village	Manjri Khurd
Correspondence Name:	Mr. Vilas Tambe
Room Number:	S.No. 36/1/1
Floor:	NA
Building Name:	Solitaire World Level 8
Road/Street Name:	Mumbai Banglore Highway Baner
Locality:	Opposite Regency Classic
City:	Pune
11.Area of the project	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number: In process
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	Work in progress as per old EC. Buildings of Sector R1 and R2 are under construction.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	4,04,497.00 m2
16.Deductions	NA as proposed project is Integrated Township
17.Net Plot area	4,04,497.00 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 687645
	b) Non FSI area (sq. m.): 639882.9
	c) Total BUA area (sq. m.): 1327527.9
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 26-06-2018
19.Total ground coverage (m2)	1,00,139.44
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24.7
21.Estimated cost of the project	27940000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sector R1- Tower T7,T8,T9	Stilt+22 floors	69
2	Sector R1- Tower T10,T11,T12	Stilt+Podium+22 floors	72
3	Sector R2- Tower T1, T2,T3,T4,T5,T6	Stilt+22 floors	69
4	Sector R3- Tower A1,A2,A3,A4	2 Podium + 21 floors	69
5	Sector R3- Tower C1,C2,C3,C4	2 Podium + 14 floors	48
6	Sector R4- Wing A1,A2,B1,B2	Stilt+ Podium + 21 floors	69
7	Sector R4- Wing C1,C2,C3,C4	Stilt+ Podium + 14 floors	48
8	Sector R5A – Tower A,B,C,D,E	Stilt+2Podium+21 floors	72
9	Sector R5B – Wing A,B	Stilt+2Podium+21floors	72
10	Sector R6-Bldg A,B,C	Stilt+2 Podium + 13 floors	48
11	Sector R6-Bldg D,E	Stilt+2 Podium +23 floors	78
12	Sector R7-Tower 1,2,3,4	Stilt+2 Podium +21floors	72
13	Sector R8-Bldg 1,2,3,4,5,6,7,8	2 B+Stilt+23 floors	72
14	Sector R9-Wing A,B,C	Podium + 30 floors	99
15	Sector R10- Tower T1,T2,T3,T4,T5,T6,T7	Stilt + 12 floors	39
16	Sector E1- Commercial Tower	G+15 floors	64
17	Sector E2-Tower 1,2	Podium +G+15 floors	68
18	Market C01- 4 nos.	Ground + 1 floor	6
19	Healthcare H01	Ground + 6 floors	24
20	Town hall P01	Ground + 5 floors	24
21	School	Ground + 5 floors	24
22	U2 Residential- Bldg A,B	Podium + 3 floors	12
23	U2 Fire Station	GR+ 1 floors	7.8
24	Sports complex	G+2 floors	14

23.Number of tenants and shops	8663 Tenements , 1213 offices/shops Residential tenants : 43,315 Persons; Commercial users including visitors: 18,761 Persons Total population: 62,076
24.Number of expected residents / users	Residential tenants : 43,315 Persons; Commercial users including visitors: 18,761 Persons Total population: 62,076
25.Tenant density per hectare	216 Tenement/hectare; 1082 Tenants/hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m wide road from the nearest fire station to the project. Nearest fire station: Amanora fire station. Nearest Fire Station Distance : 5 Km Also fire station is proposed in the project itself

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	For easy access of fire tender 9m turning radius will be provided.
29.Existing structure (s) if any	Buildings of Sector R1 and R2 are under construction
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, Govt of Mahatrashtra
	Fresh water (CMD):	4360 for res.+ 119 for car washing
	Recycled water - Flushing (CMD):	2320
	Recycled water - Gardening (CMD):	715
	Swimming pool make up (Cum):	13
	Total Water Requirement (CMD) :	7527
	Fire fighting - Underground water tank(CMD):	3125
	Fire fighting - Overhead water tank(CMD):	20 KLD for each building
	Excess treated water	2977

Wet season:	**Source of water**	Irrigation Department, Govt of Mahatrashtra
	Fresh water (CMD):	4360 for res.+ 119 for car washing
	Recycled water - Flushing (CMD):	2320
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	13
	Total Water Requirement (CMD) :	6812
	Fire fighting - Underground water tank(CMD):	3125
	Fire fighting - Overhead water tank(CMD):	20 KLD for each building
	Excess treated water	3692
Details of Swimming pool (If any)	Water requirement for make up : 13 kld a) PH-7.0 to 7.6 b)Chlorine Content -0.8 to 1.0 ppm Residual Chlorine in pool c) Disinfection Treatment - With Ozone	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon : 10 to 12 mt below ground level Post Monsoon: 4 to 6 mt below ground level
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	50 Nos. of recharge pits proposed
	Size of recharge pits :	2 m. X 1 m. X 2 m.
	Budgetary allocation (Capital cost) :	50,00,000/-
	Budgetary allocation (O & M cost) :	5,00,000/-
	Details of UGT tanks if any :	For Sector R1: 1789 kld For Sector R2: 1400 kld For Sector R3: 1327 kld For Sector R4: 1327 kld For Sector R5A: 617 kld For Sector R5B: 500 kld For Sector R6: 707 kld For Sector R7: 887 kld For Sector R8: 936 kld For Sector R9: 557 kld For Sector R10: 868 kld For fire station residential:29 kld For Sector E1: 396 kld For Sector E2: 828 kld For Health care: 125 kld For Town hall: 35 kld For School: 340 kld For fire station: 12 kld For fire tank: 500 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:	2,83,148 cum
	Size of SWD:	1.5m dia pipe
Sewage and Waste water	**Sewage generation in KLD:**	6012
	STP technology:	Engineered Wetland
	Capacity of STP (CMD):	6013
	Location & area of the STP:	Sector wise STPs are provided, also ETP of 1 kld is provided for healthcare
	Budgetary allocation (Capital cost):	Rs. 21,77,00,000 /-
	Budgetary allocation (O & M cost):	Rs. 1,16,00,000/-

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total waste generated: 100 kg/day - Dry waste (Kg/day): 40 kg/day -Wet waste (Kg/day): 60 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:**	11487 kg/day
	Wet waste:	14857 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	12 kg/day
	STP Sludge (Dry sludge):	900 kg /day
	Others if any:	E-waste : 72 kg/day
Mode of Disposal of waste:	**Dry waste:**	Dry waste will be segregated into recyclable and non-recyclable waste. Non degradable waste will be handed over to "SwaCH" (Co-operative enterprise for waste collection. Dried sludge from STP will be used as manure
	Wet waste:	Biodegradable waste will be treated in Organic Waste Converter. Separate OWCs are proposed for different sectors and amenities.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Will be handed over to authorized biomedical waste vendor
	STP Sludge (Dry sludge):	Dried sludge from STP will be used as manure.
	Others if any:	E-waste will be sent to Hi Tech Recycling Pvt. Ltd.
Area requirement:	**Location(s):**	Sector wise OWCs will be provided
	Area for the storage of waste & other material:	269 sqm
	Area for machinery:	1068 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 4,21,00,000/-
	O & M cost:	Rs 91,10,274/-

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):	0.8 kld
Capacity of the ETP:	1 KLD
Amount of treated effluent recycled :	0.7 kld
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	Not applicable

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	RG area + City Green: 81818.3 Sq m
	No of trees to be cut :	Few of the existing trees will be transplanted, other trees will be protected
	Number of trees to be planted :	6070
	List of proposed native trees :	Refer Below list
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygium cumini	Jambhul tree	215	A large size tree with dense foliage provides shade along roads, wood is water resistant and attracts a variety of birds.
2	Millingtonia hortensis	Indian cork tree	417	A columnar, evergreen tree, grows well both dry and moist regions.
3	Lagerstromia flos-regineae	Tamhan	406	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers, grows well in both dry and humid climate.
4	Pongamia pinnata	Karanj	286	Large tree good for stopping soil erosion along canal banks
5	Azadirachta indica	Neem	563	A medium to large size hardy tree which stand in drought conditions. Air Purifying quality. Attain a much larger size in dry regions.
6	Cassia fistula	Bahava	400	Small deciduous tree. Excellent bright flowering tree for arid regions.
7	Ficus benjamina	Weeping fig	262	Medium sized evergreen tree with elegant appearance and moderate water requirement.
8	Plumeria alba	Champa	311	Ornamental flowering tree.

9	Michelia champaca	Sonchapha	380	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant.
10	Polyathia longifolia	Ashoka	365	Large evergreen tree. Effective in decreasing noise pollution.
11	Mangifera indica	Mango	215	Large evergreen and fruit bearing tree
12	Albizia lebeck	Shirish	282	Shady, large tree, ball shaped flowers
13	Butea monosperma	Palas	312	Small Deciduous. Good for roadside plantation.
14	Psidium guajava	Guava, peru	215	Small hardy and birds attracting tree.
15	Jacaranda mimosifolia	Jacaranda	360	Medium size gracious deciduous, flowering tree which prefers moderate climate.
16	Khaya senghalis	Khaya	407	Large roadside tree with white sweet scented flowers
17	Spathodia campanulata	Pichkari	284	A handsome large deciduous flowering tree. Good for roadside plantation.
18	Bauhinia purpurea	Rakta Kanchan	390	Small hardy tree with beautiful pink flowers.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Raphis palm	0.60 m	200
2	Allamanda yellow	0.45m	155
3	Asparagus sprengeri	0.30m	140
4	Ixora red	0.30 m	100
5	Rhoeo	0.23 m	100
6	Russelia red	0.30m	115
7	Areca palm	0.60m	110
8	Euphorbia carcassana	0.45m	70

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (M.S.E.D.C.L.)
	During Construction Phase: (Demand Load)	100KW
	DG set as Power back-up during construction phase	125 kvA
	During Operation phase (Connected load):	55563.71KW
	During Operation phase (Demand load):	26741.70 kvA
	Transformer:	630 kvA - 49 Nos.
	DG set as Power back-up during operation phase:	365KVA- 3Nos. 200KVA- 1 Nos. 180KVA- 2Nos. 160KVA- 1Nos. 140KVA- 1Nos. 250KVA- 5Nos.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Timers and contactors will be used to switch on / off common are & external landscape and facade lighting.
Light Emitting Diode (LED) will be used for corridors, Lobbies and common areas.
All fluorescent light fixtures are specified to incorporate electronic chokes which have less watt-loss compared to electro-magnetic chokes and result in superior operating power factor. This indirectly saves energy. Electronic chokes also improves life of the fluorescent lamps.
Energy efficient cfl/t5/led lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs. LPD of 7.5 W/sq.mtr. in Residential areas & 10.8 W/sq.mtr. in Office areas is proposed.
All cables will be derated to avoid heating during use. This also indirectly reduces losses and improves reliability. To achieve the same we have considered current carrying capacity of all the cables laid through ground/air whichever is minimum.
125 Ltrs Solar water is provided for each flat.
Solar PV panel system is proposed for Street lighting & Building common lighting.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saving : i.e. (27 % Savings) Energy saving due to solar :i.e. (82 % Savings)	Total Energy Saving : i.e. (27 % Savings) Energy saving due to solar :i.e. (82 % Savings)

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:**	13300000
	O & M cost:	668000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	38044695
2	Land	Labour Camp toilets & sanitation	4400000
3	Health and Safety	Health checkup & Disinfection	306000
4	Environment Management	Environment management cell	300000
5	Environmental Monitoring	Environmental Monitoring	275000

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	STP	21,77,00,000/-	1,16,00,000/-
2	Solid Waste Management	OWC	4,21,00,000/-	91,10,274/-
3	Landscaping	Development and Maintenance	2,95,15,825/-	23,61,266/-
4	Rain Water Harvesting	Rain Water Harvesting	50,00,000/-	5,00,000/-
5	Energy Saving	Solar PV panels	133,00,000/-	6,68,000/-
6	Environmental Monitoring	Environmental Monitoring	-	11,50,000/-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Proposed site is located at Manjri. Site is accessible from 30 m road from west side. For internal traffic movement 6m, 9m wide driveway will be proposed.

Parking details:	**Number and area of basement:**	101107.64 sqm
	Number and area of podia:	116434.69 sqm
	Total Parking area:	283803.52 sqm
	Area per car:	12.5 sqm
	Area per car:	12.5 sqm
	Number of 2-Wheelers as approved by competent authority:	10860
	Number of 4-Wheelers as approved by competent authority:	11938
	Public Transport:	Buses are propsoed
	Width of all Internal roads (m):	9m-24m
	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) Township and Area Development Projects
	Court cases pending if any	NA
	Other Relevant Informations	Proposed project is Integrated Township at Manjri
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for amendment in earlier Environmental clearance for total plot area of 404497.00 m2, Total BUA of 1327527.9 m2 and FSI area of 687645 m2.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to obtain specific NOC from adjoining plot owners to lay storm water drainage line up to the final disposal point, i.e. River.
2) PP to submit plan of SWD & sewer line connectivity up to final disposal point with chamber, invert level details.
3) PP to submit cross sections of recharge pits.

FINAL RECOMMENDATION

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

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Environment Clearance for Proposed Amendment in Environmental Clearance of Mixed Use Development Project

Is a Violation Case: No

1.Name of Project	addressOne
2.Type of institution	Private
3.Name of Project Proponent	Peninsula Land Ltd. (an Ashok Piramal Group company)
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	Modernization
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	The project received Environmental Clearance on 17th October, 2011 vide File. No.: SEAC-2010/CR.892/TC.2 for a total plot area of 2, 02,857.00 sq.mt and B.U.A of 2, 65,233.20 sq.mt (FSI Area: 1, 62,117.20 sq.mt and Non-FSI Area: 1, 03,116.00 sq.mt) in the name of M/s. City Parks Pvt.Ltd. with a validity date 17th October, 2016. Later on the M/s. City Parks Pvt.Ltd merged into Peninsula Land Ltd. As per OM dated 12th April, 2016 by MoEF &CC regarding the Extension of validity of Environmental Cle
8.Location of the project	Gut no 184, 186, 190, 192, 195, 222, 223, 224 at Gahunje, Pune.
9.Taluka	Maval
10.Village	Gahunje
Correspondence Name:	Mr. Chandrashekhar Ogale (Authorised Signatory Peninsula Land Ltd)
Room Number:	1, Peninsula Spenta,
Floor:	1, Peninsula Spenta,
Building Name:	1, Peninsula Spenta,
Road/Street Name:	Mathuradas Mill, Senapati Bapat Marg,
Locality:	Lower Parel
City:	Mumbai 400013
11.Area of the project	Pune Metropolitan Region Development Authority (PMRDA)
12.IOD/IOA/Concession/Plan Approval Number	Concession Layout approved by PMRDA
	IOD/IOA/Concession/Plan Approval Number: Plot A: BMA/C.R.No-1282/17-18/Mouza Gahunje, G.No-184 & Ors Dt: 01.02.2018; Plot B: BMA/C.R.No-1282/17-18/Mouza Gahunje, G.No-184 & Ors , Dt: 01.02.2018
	Approved Built-up Area: 241695
13.Note on the initiated work (If applicable)	Work not yet started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1,98,200.00 sq.mt
16.Deductions	(a) 4,778.19 sq.mt Road Set Back (b) 29,013.22 sq.mtrs Amenity Plots, Total: 33,791.41 sq.mt
17.Net Plot area	1,64,408.59 sq.mt
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Plot A- 92,230.41 sq.mt.; Plot B- 82,736.46 sq.mt; Club House on Plot A- 1,662.73 sq.mt; Club House on Plot B- 1,238.59 sq.mt. ; Total: 1,77,868.19 sq.mt.
	b) Non FSI area (sq. m.): Plot A- 24,278.70 sq. mt.; Plot B- 32,747.22 sq. mt.; Club House on Plot A- 962.73 sq.mt.; Club House on Plot B- 838.59 sq.mt.; Services Area- 5,000.00 sq.mt.; Total: 63,827.24 sq.mt.
	c) Total BUA area (sq. m.): 241695
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)	Plot A- 21,701.10 sq.mt.; Plot B- 10,627.02 sq.mt.; Club House on Plot A- 1108.00 sq.mt.;Club House on Plot B- 825.72 sq.mt.; Total: 34,261.84 sq.mt.

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.83%
21.Estimated cost of the project	8723394303

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Plot A, 113 Nos.	G+4 upper flrs.	14.95 mt
2	Plot B, 18 Nos.	G+11 upper flrs.	36.00 mt.
3	Plot A Club House , 9 Nos.	G+1	8.40 mt
4	Plot B Club House , 4 Nos.	G+1	8.40 mt

23.Number of tenants and shops	Plot A: Residential Apartments : 2240 nos. Shops on : 30 Nos. Plot B: Residential Apartments : 792 nos Total Residential Units: 3032 Nos. Total Shops: 30 Nos.
24.Number of expected residents / users	Plot A: 9,708.00 Nos.; Plot B: 4356.00 Nos.; Total: 14,064.00 Nos.
25.Tenant density per hectare	154.49 Tenants / Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.00 mtrs
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	NA
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	Currently open land, construction not yet started . No existing structures on site to be demolished.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC/ Recycled Water
	Fresh water (CMD):	Plot A: 847.00 ; Plot B:393.00; Total: 1240.00
	Recycled water - Flushing (CMD):	Plot A: 508.00 ; Plot B:251.00; Total: 759.00
	Recycled water - Gardening (CMD):	Plot A: 84.80; Plot B:54.00; Total:139.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	Plot A: 1440.00; Plot B: 698.00; Total: 2138.00
	Fire fighting - Underground water tank(CMD):	For Plot B: 150.00 KLD
	Fire fighting - Overhead water tank(CMD):	For Plot B: 18 x 5.00 KLD
	Excess treated water	Plot A: 408.00, Plot B: 197.00; Total: 605.00
Wet season:	**Source of water**	PCMC/ Recycled Water
	Fresh water (CMD):	Plot A: 847.00 ; Plot B:393.00; Total: 1240.00
	Recycled water - Flushing (CMD):	Plot A: 508.00 ; Plot B:251.00; Total: 759.00
	Recycled water - Gardening (CMD):	--
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	Plot A: 1355.00; Plot B: 644.00; Total: 1999.00
	Fire fighting - Underground water tank(CMD):	For Plot B: 150.00 KLD
	Fire fighting - Overhead water tank(CMD):	For Plot B: 18 x 5.00 KLD
	Excess treated water	Plot A: 493.00, Plot B: 251.00; Total: 744.00
Details of Swimming pool (If any)	--	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Ground water table is reported at depths between 1.0m and 4.25m below ground surface in the boreholes completed for original geotechnical investigation during rainy seasons
	Size and no of RWH tank(s) and Quantity:	---
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	Plot A:11 Nos.; Plot B: 9 Nos.; Total: 20 Nos.
	Size of recharge pits :	3.00 mt x 35.00 mt. depth
	Budgetary allocation (Capital cost) :	Attached
	Budgetary allocation (O & M cost) :	Attached
	Details of UGT tanks if any :	Underground tank of adequate capacity will be provided for Domestic, Flushing, fire Fighting, STP, RWH Plot A: Domestic: Sec-1:118.00 KLD; Sec-2:117.00 KLD & 163.00 KLD; Sec-3: 217.00 KLD; Sec-4:231.00 KLD; Plot B: Domestic: 393.00 KLD; Plot A: Flushing: Sec-1:67.00 KLD; Sec-2:63.00 KLD & 99.00 KLD; Sec-3: 124.00 KLD; Sec-4:154.00 KLD; Plot B: Flushing: 251.00 KLD;
35.Storm water drainage	**Natural water drainage pattern:**	slope towards west
	Quantity of storm water:	0.17 m3 /sec
	Size of SWD:	Attached
Sewage and Waste water	**Sewage generation in KLD:**	Plot A: 1107.00; Plot B: 551.00; Total : 1658.00
	STP technology:	MBBR
	Capacity of STP (CMD):	Plot A: Sector-1: 1x 155.00 KLD; Sector-2: 1 x 152.00 KLD & 1 x 211.00 KLD; Sector-3 : 1 x 282.00 KLD; & Sector-4 : 1x 301.00 KLD ;Plot B: 1) 1X510 KLD
	Location & area of the STP:	Under ground
	Budgetary allocation (Capital cost):	attached
	Budgetary allocation (O & M cost):	attached
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	0.81 T/day
	Disposal of the construction waste debris:	waste generation from proposed phases 30% will be recycled on site & remaining will be handed over to Authorised Recycles as per C&D waste Management Rule,2016
Waste generation in the operation Phase:	**Dry waste:**	Plot A:1099.00 Kg/day; Plot B: 815.00 Kg/day; Total: 1914.00 Kg/day
	Wet waste:	Plot A: 1959.00 Kg/day; Plot B: 656.00 Kg/day; Total: 2615.00 Kg/day
	Hazardous waste:	Spent pol from DG
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Plot A: 173.00 Kg/day; Plot B: 87.00 Kg/day; Total: 260.00 Kg/day
	Others if any:	--

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to Authorised Recyclers as per MSW Rule,2016
	Wet waste:	Will be treated in OWC
	Hazardous waste:	waste generation from Phase-I , used for land levelling purpose; from proposed phases 30% will be recycled on site & remaining will be handed over to Authorised Recycles as per C&D waste Management Rule,2016
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	--
Area requirement:	**Location(s):**	attached
	Area for the storage of waste & other material:	attached
	Area for machinery:	attached
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	attached
	O & M cost:	attached

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 :**	PLOT A- 11084.88 sq.mt . PLOT B- 8257.26 sq.mt ;Total 19,342.14 sq.mt
	No of trees to be cut :	Attached
	Number of trees to be planted :	Attached
	List of proposed native trees :	Attachd
	Timeline for completion of plantation :	Throughout the construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Attachd	Attachd	Attachd	Attachd
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	Attachd	Attachd	Attachd

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	274.00 kW
	DG set as Power back-up during construction phase	62.50 kVA & 50.00 kVA
	During Operation phase (Connected load):	Plot A: 5051.29 KW; Plot B: 5373.25 KW; Total: 10,424.54 KW
	During Operation phase (Demand load):	Plot A: 3411.93 KW; Plot B: 2580.39 KW; Total: 5992.32 KW
	Transformer:	Plot A: Sector-1: 1000 kVA-1 Nos.; Sector-2: 1000 kVA-2Nos. & 630 kVA-1 Nos.; SEctor 3& 4: 1000 kVA-4Nos & 315 kVA-1Nos; Plot-B: 4x1000 KVA
	DG set as Power back-up during operation phase:	Plot A: Sector-1: 200 kVA-1Nos.; Sector-2: 160 kVA-1Nos. & 200 kVA-1Nos..; SEctor 3& 4: 1600 kVA-1Nos.; Plot-B: 1x 630 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Attached
Plot A: 23.76 %
Plot A: 29.98%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Attached	Attached

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:**	Attached
	O & M cost:	Attached

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust Pollution	Water Sprinkling	6.50
2	EHS	Site Sanitation,Health Checkup, Labour Children Creche	12.00
3	Env Monitoring	--	2.00

b) Operation Phase (with Break-up):

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

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:	Attached

Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	Plot A (Car- 4412.5 Sq.Mt., Scooter – 9326 Sq.Mt. Cycle 6528.2 Sq.Mt.) Plot B (Car- 4,950 Sq.Mt., Scooter – 2376 Sq.Mt. Cycle 1,663.2 Sq.Mt.)
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	Plot A (Scooter – 4663, cycle 4663) Plot B (Scooter – 1188, cycle 1188)
	Number of 4-Wheelers as approved by competent authority:	Plot A (Car- 353) Plot B (Car- 396)
	Public Transport:	--
	Width of all Internal roads (m):	--
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	--
	Category as per schedule of EIA Notification sheet	8b
	Court cases pending if any	No
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
Subject:	Environment Clearance for Environment Clearance for Proposed Amendment in Environmental Clearance of Mixed Use Development Project	Environment Clearance for Proposed Amendment in Environmental Clearance of Mixed Use Development Project on Gut no 184, 186, 190, 192, 195, 222, 223, 224 at Village Gahunje, Taluka – Maval, Dist.-Pune. by Peninsula Land Ltd. (an Ashok Piramal Group company)

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for prior EC for total plot area of 198200.00 m^2 , FSI area of 177868.19 m^2 , non-FSI area of 63827.24 m^2 and Total BUA of 241695.43 m^2.

The Committee noted that the project received previous EC on 17th October, 2011 vide File. No.: SEAC-2010/CR.892/TC.2 for a total plot area of 202857.00 sq.mt and BUA of 265233.20 m2 (FSI: 162117.20 m2 and Non-FSI : 103116.00 m2) in the name of M/s. City Parks Pvt. Ltd. Later on the M/s. City Parks Pvt. Ltd. merged into Peninsula Land Ltd.

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

PP has satisfactorily complied with the points raised in 74th meeting of SEAC-3.

DECISION OF SEAC

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for proposed project by M/s Shree Venkatesh Buildcon.

Is a Violation Case: No

1.Name of Project	"Venkatesh Skydale"
2.Type of institution	Private
3.Name of Project Proponent	Mr. Ankush Asabe
4.Name of Consultant	JV Analytical Services
5.Type of project	Residential & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	S.No. 20,H.NO.1, Plot "H",
9.Taluka	Haveli
10.Village	Hingane (kh), Sinhgad Road,
Correspondence Name:	Mr. Lahuraj B. Asabe
Room Number:	Office no 2,
Floor:	1st Floor
Building Name:	Laukik Apartment,
Road/Street Name:	870 Bhandarkar Road,
Locality:	-
City:	Pune-411004
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 84707.06
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.)	28200.00 m2
16.Deductions	12718.53 m2
17.Net Plot area	15481.47 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 46433.70
	b) Non FSI area (sq. m.): 38273.36
	c) Total BUA area (sq. m.): 84707.06
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 12868.04
	Approved Non FSI area (sq. m.): -
	Date of Approval: 02-11-2015
19.Total ground coverage (m2)	7120.00 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25.24 % of Total Plot area (28200.00 m2) & 45.99 % of Net Plot area (15481.47 m2)
21.Estimated cost of the project	2250000000

22.Number of buildings & its configuration

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

1	Wing A	LG1+Gr+ 1st P.P. + 2nd P.P.+ Club House Lvl. +20th Floor	69.98
2	Wing B	LG1+Gr+ 1st P.P. + 2nd P.P.+ Club House Lvl. + 20th Floor	69.98
3	Wing C	LG1+ LG2 + Gr+ 1st P.P. + 2nd P.P.+ Club House Lvl. +20th Floor	69.98
4	Wing D	LG1+Gr+ 1st P.P. + 2nd P.P.+ Club House Lvl. +19th Floor	67.10

23.Number of tenants and shops	Total Tenements -374 Nos. Total Shops- 22 Nos., Total Offices- 13 Nos.
24.Number of expected residents / users	Residential Users: 1870 Nos. Commercial Users: 1398 Nos. Total Users: 3268 Nos.
25.Tenant density per hectare	132.62/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)	36 M &18 M wide D.P. Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Two numbers of existing tin shades & One temple in reservation plot.
30.Details of the demolition with disposal (If applicable)	Existing tin shade will be demolished & debris will be given to kabadiwala.

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):	330.47 m3/day (One time)
	Recycled water - Flushing (CMD):	119.10 m3/day
	Recycled water - Gardening (CMD):	13.92 m3/day
	Swimming pool make up (Cum):	1.19 m3/day
	Total Water Requirement (CMD) :	197.45 m3/day
	Fire fighting - Underground water tank(CMD):	350 m3
	Fire fighting - Overhead water tank(CMD):	80 m3
	Excess treated water	150.81 m3/day
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	316.55 m3/day (One time)
	Recycled water - Flushing (CMD):	119.10 m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	1.19 m3/day
	Total Water Requirement (CMD) :	197.45 m3/day
	Fire fighting - Underground water tank(CMD):	350 m3
	Fire fighting - Overhead water tank(CMD):	80 m3
	Excess treated water	164.73 m3/day
Details of Swimming pool (If any)	Dimension of Swimming Pool: 98.36 sq.m. Total water Requirement in KLD:118.58 m3 Water requirement in KLD: 1.19 m3/day Details of Plant & Machinery used for treatment of Swimming pool water: Details of quality to be achieved for swimming pool water and parameters to be monitored Budgetary allocation (Capital cost and O & M cost): • Capital cost :Rs. 20.00 Lakh • O & M Cost : Rs 1.20 Lakh/Year	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	12 m to 30 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5 Nos.
	Size of recharge pits :	2.0 M X2.0 M X 3.0 M
	Budgetary allocation (Capital cost) :	Rs. 15.00 Lakh
	Budgetary allocation (O & M cost) :	Rs 1.20 Lakh/Year
	Details of UGT tanks if any :	Domestic UG tank Capacity: 251.79 m3 Flushing UG tank Capacity: 175.79 m3 Fire UG tank Capacity: 350 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	620.5 m3/day
	Size of SWD:	Circular pipe drain of size 200,250 & 300mm dia.
Sewage and Waste water	**Sewage generation in KLD:**	Residential:227.21 m3/day, Commercial:56.62 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	STP 1: 230 m3/day- 1 No(For Residential)., STP 2: 60 m3/day-- 1 No.(For commercial)
	Location & area of the STP:	191.70 m2
	Budgetary allocation (Capital cost):	STP 1:Rs.64.15 Lakh, STP 2:Rs. 21.90 Lakh
	Budgetary allocation (O & M cost):	STP 1:Rs. 9.66 Lakh / Year, STP 2:Rs. 4.91 Lakh / Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	40 kg/day
	Disposal of the construction waste debris:	Use for Leveling
Waste generation in the operation Phase:	**Dry waste:**	513.80 kg/day.
	Wet waste:	630.90 kg/day.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	25.54 kg/day.
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized Vender
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC.
	Others if any:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	80 m2 including machinery area
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 11.90 Lakh
	O & M cost:	Rs. 2.83 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	400 KVA – 3No.	HSD-247.23 Ltr/Hr @ 100% load	S-1,S-2,S-3	5 Mtr	will be provided	will be provided
2	50 KVA – 1 No.	HSD-12.44 Ltr/Hr @ 100% load	S-4	5 Mtr	will be provided	will be provided

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	259.67 Ltr/Hr	259.67 Ltr/Hr
41.Source of Fuel		Bharat Petroleum Corporation Ltd/ Hindustan Petroleum		

42.Mode of Transportation of fuel to site	By Roadway

43.Green Belt Development	**Total RG area :**	1548.15 m2
	No of trees to be cut :	47 no.
	Number of trees to be planted :	292 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	Ailanthus excelsa	Maharukh	10	Medicinal value, Drought tolerant species.
2	Albizia lebek	Shirish	04	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
3	Anthocephalus kadamba	Kadamb	08	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits
4	Azardirachta indica	Neem	18	Medicinal value, To control soil erosion, To improve soil erosion
5	Bauhinia blackiana	Kanchanraj	08	Every part of the plant is medicinal, Drought tolerant species.
6	Bauhinia purpurea	Gulabi kanchan	08	Every part of the plant is medicinal, Drought tolerant species.
7	Butea monosperma	Palas	04	Medicinal value, Bird attracting species , To control soil erosion
8	Cassia fistula	Bahawa	04	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
9	Choclospermum religiosum	Sonsawar	04	Medicinal value, Native species
10	Cordia dichotoma	Bhokar	04	Medicinal value, Edible fruits,
11	Dalbergia sissoo	Shisav	15	Medicinal value, Bird attracting species
12	Ficus arnottiana	Payar	04	Drought tolerant species, Bird attracting species. To control soil erosion.
13	Ficus glomerata	Umber	08	Medicinal value, Edible fruits, Bird attracting species
14	Ficus retusa	Nandruk	04	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant

15	Mangifera indica	Mango	09	Edible fruit, Bird attracting species.
16	Michelia champaca	Sonchaffa	08	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
17	Pongamia pinnata	Karanj	08	Medicinal value, Drought tolerant species, To control soil erosion, Hardy plant
18	Saraca indica	Sita-ashok	04	Medicinal value, Religious plant
19	Syzygium cumini	Jamun	08	Medicinal value, Edible fruit.
20	Elaeocarpus sphaericus	Rudraksha	04	Medicinal value, Native species
21	Melia Azaradichta	Bakam neem	12	Medicinal value, Native species Bird attracting species
22	Bahunia racemosa	Apta	08	Every part of the plant is medicinal, Drought tolerant species
23	Aegle marmelos	Bel	16	Medicinal value, Drought tolerant species,
24	Citrus species	Lemon	04	Medicinal value, Edible fruit.
25	Schleichera oleosa	Kusum	12	Native species, Fragrant flowers
26	Gmelina arborea	Shivan	08	Medicinal value, Drought tolerant species, Bird attracting species
27	Mimosups elengii	Bakul	16	Fragrant flowers, Medicinal value, To control soil erosion.
28	Putrnjiva roxburghii	Putrnjiva	12	Medicinal value, Drought tolerant species
29	Nyctanthus arbortristis	Parijatak	16	Fragrant flowers, Medicinal value.
30	Erythrina indica	Pangara	12	Fragrant flowers, Drought tolerant species, Birds attracting
31	Murraya exotica	Kamini	16	Native species, Fragrant flowers,
32	Roystonia regia	Bottle palm	04	Ornamental plant, Medicinal value, Birds & bats eat fruits.
33	Caryota urens	Fishtail palm	12	Grown in any type of soil. Very Hardy.
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)	50 KW
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	4172 KW
	During Operation phase (Demand load):	1887 KW
	Transformer:	630 KVA – 3 No.
	DG set as Power back-up during operation phase:	400 KVA – 1 No. & 50 KVA – 1 No. (For Residential) 400 KVA – 2 No. (For Commercial)
	Fuel used:	For 400 KVA :- 82.41 Ltr/Hr @ 100% load & For 50 KVA :- 12.44 Ltr/Hr @ 100% load
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

LED Lights,
PV Solar,
Energy Efficient pump
Solar hot water etc.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Lighting (for Landscape/Street Lighting)	13%
2	Energy Efficient T5 Lights (Parking + common areas)	20%
3	VFD's on Lifts	20%
4	Solar Panel for Hot water	12%

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:**	Energy system : Rs 62.70 Lakh, Solar System:Rs 67.30 Lakh
	O & M cost:	Energy system : Rs 2.65 Lakh/year. , Solar System: Rs 7.25 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 1 (Residential)	230 m3/day	64.15 Lakh	9.66 Lakh/Year
2	STP 2 (Commercial)	60 m3/day	21.90 Lakh	4.91 Lakh/Year
3	RWH	Rain water Harvesting	15.00 Lakh	1.20 Lakh/Year
4	MSW	Organic Waste Coverter	11.90 Lakh	2.83 Lakh/Year
5	Energy System	-	62.70 Lacks	2.65 Lacks / year
6	Solar System	-	67.30 Lakh	7.25 Lacks / year
7	Landscaping	-	30.39 Lakh	4.87 Lakh/Year
8	Swimming Pool	-	20.00 Lakh	1.20 Lakh/Year
9	Safety Equipments	-	10.00 Lakh	2.00 Lakh/Year
10	Post EC Monitoring	-	-	2.50 Lakh/Year
11	Dry Waste Management	-	-	2.24 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:**	1 no. - 3266.70 m2
	Number and area of podia:	2 no. -7702.44 m2
	Total Parking area:	27849.72 m2
	Area per car:	39.16 m2
	Area per car:	39.16 m2
	Number of 2-Wheelers as approved by competent authority:	1274 Nos.
	Number of 4-Wheelers as approved by competent authority:	711 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6 m.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 28200.00 m^2, BUA of 84707.06 m^2 and FSI area of 46433.70 m^2 and Non FSI area of 38273.36 m^2. PP proposes to construct 4 no. of residential buildings (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.

PP has satisfactorily complied with the points raised in 73rd meeting of SEAC-3.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Nil.

FINAL RECOMMENDATION

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

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Application for Environmental clearance for expansion of residential and commercial construction project Tuscan Estate

Is a Violation Case: No

1.Name of Project	Tuscan Estate
2.Type of institution	Private
3.Name of Project Proponent	Tuscan Real Estate Pvt. Ltd.
4.Name of Consultant	Not required
5.Type of project	Housing
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Previous EC no. SEAC-2211/C.R. 925/ TC 11, dated 17 April 2015
8.Location of the project	S. no. 40, Kharadi, Pune
9.Taluka	Haveli
10.Village	Kharadi
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Full potential IOD In process
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 113896
13.Note on the initiated work (If applicable)	As per previous EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	51700 sqm
16.Deductions	19488.58 sqm
17.Net Plot area	32211.42 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 57804.68 sqm
	b) Non FSI area (sq. m.): 62787 sqm
	c) Total BUA area (sq. m.): 120591.68
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)	16345
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	31.61
21.Estimated cost of the project	3200000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A1 building (1 no.)	2B + 21	66.65 m
2	A2 building (1 no.)	2B + 22	69.95 m
3	A3 building (1 no.)	2B + 22	69.95 m
4	B1 building (1 no.)	LP + UP +11	35.55 m
5	B2 building (1 no.)	LP + UP +11	35.55 m

6	B3 building (1 no.)	LP + UP +11	35.55 m
7	B4 building (1 no.)	LP + UP +11	35.55 m
8	B5 building (1 no.)	LP + UP +11	35.55 m
9	C1 building (1 no.)	2B+15	45 m
10	C2 building (1 no.)	2B+15	45 m
11	1 play school	G + 1	7.9 m
12	Clubhouse	G + 1	7 m

23.Number of tenants and shops	Residential: 519 Commercial: 1 play school
24.Number of expected residents / users	Residential: 2595 ; Commercial: 100
25.Tenant density per hectare	106
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	5 (B1 to B5) Buildings are constructed and other 2 (A1, A2 building) for 22 floors completed internal finishing are in process as per previous EC
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	236 KLD
	Recycled water - Flushing (CMD):	119 KLD
	Recycled water - Gardening (CMD):	47 KLD
	Swimming pool make up (Cum):	4.5 KLD
	Total Water Requirement (CMD) :	402 KLD
	Fire fighting - Underground water tank(CMD):	500 KLD
	Fire fighting - Overhead water tank(CMD):	Phase I: 22000 lit/ building; Phase II: 20,000 lit/ building
	Excess treated water	165 KLD
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	236 KLD
	Recycled water - Flushing (CMD):	119 KLD
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	4.5 KLD
	Total Water Requirement (CMD) :	355 KLD
	Fire fighting - Underground water tank(CMD):	500 KLD
	Fire fighting - Overhead water tank(CMD):	Phase I: 22000 lit/ building; Phase II: 20,000 lit/ building
	Excess treated water	212 KLD
Details of Swimming pool (If any)	Dimension of swimming pool: 25.1 m x 5.1 m x 1.2 m Total water requirement: 153 KLD Water requirement for makeup: 4.5 KLD	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	236	236	0	10	10	0	331	331
Gardening	0	47	47	0	47	47	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	7-8 m below ground level
	Size and no of RWH tank(s) and Quantity:	2 no. Phase I: 1.2 x 6.0 m x 2.40 m; Phase II: 3.5 m x 3.5 m x 2.4 m
	Location of the RWH tank(s):	Please refer layout
	Quantity of recharge pits:	2 nos. with recharge bore well
	Size of recharge pits :	Please refer layout
	Budgetary allocation (Capital cost) :	Rs 10.50 lakh
	Budgetary allocation (O & M cost) :	Rs 0.5 lakh/ annum
	Details of UGT tanks if any :	Domestic UGT: 399 cum Flushing UGT: 85 cum from treated waste water tank of STP Fire UGT: 500 cum
35.Storm water drainage	**Natural water drainage pattern:**	As per contour through nala
	Quantity of storm water:	36190 KL/year
	Size of SWD:	200 mm to 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	331 KLD
	STP technology:	FAB
	Capacity of STP (CMD):	1 no. 400 KLD capacity
	Location & area of the STP:	Please refer layout
	Budgetary allocation (Capital cost):	Rs 120 lakhs
	Budgetary allocation (O & M cost):	Rs 34 lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris, topsoil/rock
	Disposal of the construction waste debris:	land filling and landscaping
Waste generation in the operation Phase:	**Dry waste:**	464 kg/day
	Wet waste:	745 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	29 kg/day
	Others if any:	E-waste: 519 kg/year

Mode of Disposal of waste:	**Dry waste:**	Through authorized vendor
	Wet waste:	Mechanized composting unit
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	As manure
	Others if any:	E-waste: Through authorized vendor
Area requirement:	**Location(s):**	Please refer layout
	Area for the storage of waste & other material:	Phase I: 8.82 cum; Phase II: 22.30 cum
	Area for machinery:	Phase I: 23.45 cum; Phase II: 77.5 cum
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 12 lakh
	O & M cost:	Rs 8.5 lakh/ annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	6.5-8.5	5.5-9.0	NA
2	Oil and grease	mg/l	10-20	<10	NA
3	BOD	mg/l	200-250	<10	not to exceed 10
4	COD	mg/l	350-400	<60	not to exceed 100
5	TSS	mg/l	150-200	<10	not to exceed 50
6	Total nitrogen	mg/l	120	<50	NA
7	Nitrate	mg/l	15-16	<10	NA
8	Dissolved phosphorus	mg/l	13-15	<5	NA
9	Fecal coliform	mg/l	10000000	Nil	NA

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 :**	4524.74 sqm
	No of trees to be cut :	NA
	Number of trees to be planted :	456
	List of proposed native trees :	As per below list
	Timeline for completion of plantation :	1 year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ailanthus excelsa	Maharukh	17	Medicinal use
2	Alstonia scholaris	Satvin	17	Ayurvedic medicine to treat fever, malaria, troubles in digestion, tumors, ulcers, asthma, and so forth. The leaves and the latex are applied externally to treat tumors.
3	Anthocephalus cadamba	Kadamb	15	Medicinal use - Used in preparartion of perfumes
4	Azadirachta indica	Neem	21	Medicinal use - Used in Anthelmintic, antifungal, antidiabetic, antibacterial, antiviral, contraceptive, and sedative.
5	Bauhinia purpurea	Raktakanchan	20	Medicinal use -Bark acts as an astringent in diarrhoea; its decoction is used as a wash in ulcers.
6	Bauhninia atimentosa	Piwala Kanchan	15	Medicinal use -Its bark is rubbed on the affected area to cure Wounds and Ulcers. A decoction prepared from its bark is used for gargling to treat Oral Problems like Sore Throat.
7	Bombax ceiba	Kate sawar	11	Medicinal use - Used in treatment of gastrointestinal disorders like dysentery and diarrhea.
8	Butea monosperma	Palas	26	Medicinal uses - Is helpful to cure different health problems of eyes, skin etc
9	Cassia fistula	Bahawa	20	Medicinal use - is widely used tonic that helps in reducing fever.

10	Erythrina indica	Pangara	18	Medicinal use - It is used for treating intestinal worms, anorexia, cholesterol imbalance etc
11	Ficus retusa	Nandruk	24	The latex has been used to produce rubber
12	Gmelia arborea	Shivan	21	Medicinal uses - improve appetite, useful in hallucination, piles, abdominal pains, burning sensations, fevers, 'tridosha' and urinary discharge. Leaf paste is applied to relieve headache and juice is used as wash for ulcers.
13	Khaya grandis	Mahagony	12	Medicinal and agroforestry use.Used in farmaceutical industry. Extracts from the plant contains pesticidal properties.
14	Lagerstromia speciosa	Flosreginae	34	Medicinal use in diabetes and kidney diseases
15	Michelia champaca	Sonchafa	20	Famous for its fragrent flowers. Its flowers and stem bark are useful in diabetes, quick wound healing, cardiac disorders, gout, dysuria and more.
16	Mimusops elengi	Bakul	21	Ayurvedic uses - It is mainly used for dental ailments such as bleeding gums, pyorrhea, dental caries, and loose teeth.
17	Murraya paniculata	Kunti	25	Medicinal use - It is valued especially for its essential oil and used in medicine as an analgesic.
18	Pongamia pinnata	Karanj	24	Medicinal use - Today the oil is used as a liniment for rheumatism. Leaves are active against Micrococcus; their juice is used for colds, coughs, diarrhea, dyspepsia, flatulence, gonorrhea, and leprosy. Roots are used for cleaning gums, teeth, and ulcers.
19	Putranjiva roxburghii	Putranjiva	10	This Ayurvedic Plant is used for the for the treatment of eye disorders, burning sensation, elephantiasis, difficulty in micturition, azoospermia and habitual abortions.
20	Salix tetrasperma	Walunja	20	Medicinal use - Leaves and bark used as remedy for aches and fever. - Decoction of leaf and root used for whooping cough in children. - Paste of both leaf and root used externally for scorpion stings, bug bites, sores and warts.
21	Samaniasaman	Raintree	23	Rain tree is a traditional remedy for colds, diarrhea, headache, intestinal ailments and stomachache
22	Saraca ashok	Sita ashok	14	Important Ayurvedic plant
23	Terminalia arjuna	Arjun	28	Fruit tree

45.Total quantity of plants on ground	

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	125 KW
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	3895 KW
	During Operation phase (Demand load):	2338 KW
	Transformer:	630 KVA x 3
	DG set as Power back-up during operation phase:	150 KVA x 1; 125 KVA x 1; 250 KVA x 1
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

CFL, LED, Solar energy for street and commom area lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar water heater	489465 units/annum
2	LED for common lighting	62108.40 KWH/annum

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 56.5 lakh
	O & M cost:	Rs 1 lakh/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Erosion control	Dust suppression measures and barricading	12
2	Site safety	Safety equipments, sign boards for workers	18
3	Site sanitation	Mobile toilets, treatment of water and waste water	4
4	Disinfection and health check up	Mobile toilets for workers, pesticide spraying, disinfection of surrounding area for workers	1
5	Environmental monitoring	Air, water, noise, soil analysis	1

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Installation and operation	120	34
2	Solid waste management	OWC-installation and operation	12	8.25
3	Rain water harvesting	Internal piping	10.5	0.5
4	Green belt development	Plantation of trees; maintenance of trees and lawn	46.5	16.5
5	WTP	Installation and operation	6.5	5
6	Swimming pool	construction and operation	40	2.5
7	Storm water networking	upto final disposal	53.5	1
8	Non conventional energy	Installation and operation	56.5	1
9	EMP monitoring	Air, water, noise, soil analysis	0	4
10	Water tanker	In case of emergency	0	8.64
11	Safety awareness and training	Fire training, mock drill	9	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:	1
Parking details:	**Number and area of basement:**	2 no. Area:16657 sqm
	Number and area of podia:	10500 sqm
	Total Parking area:	32690 sqm
	Area per car:	30 sqm and 35 sqm
	Area per car:	30 sqm and 35 sqm
	Number of 2-Wheelers as approved by competent authority:	1040
	Number of 4-Wheelers as approved by competent authority:	640
	Public Transport:	NA
	Width of all Internal roads (m):	6 m and 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	category 8 a B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for modernization of earlier Environmental clearance for total plot area of 51700.00 m^2, BUA of 120591.68 m^2 and FSI area of 57804.68 m^2. PP proposes to construct 10 no. of residential buildings +1 play school+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 following conditions.

Specific Conditions by SEAC:

1) PP to submit affidavit that debris/excess earth disposal will be carried out in a scientific manner.

FINAL RECOMMENDATION

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

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Proposed residential cum commercial construction project at S. No. Survey No. 227/a/227/1 to 17/Plot No. 1 & Plot No. 2, Opposite Symbiosis Law College, New VIP Road, Viman Nagar Pune

Is a Violation Case: No

1.Name of Project	Proposed residential Construction by Shubh Landmarks
2.Type of institution	Private
3.Name of Project Proponent	Mr. Anuj Agarwal
4.Name of Consultant	EMP consultant:Oasis Environmental Foundation, accrediated by NABET, the scope of consultancy is limited to preparation of environmental management plan only. (In accordance with EIA amendment notification 3rd March 2016)
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 227/a/227/1 to 17/Plot No. 1 & Plot No. 2
9.Taluka	Haveli
10.Village	Viman Nagar
Correspondence Name:	Mr. Anuj Agarwal
Room Number:	Mittal house, M2/13,14
Floor:	-
Building Name:	NISARG HOUSING SOCIETY
Road/Street Name:	OPPOSITE GOLF COUSRSE
Locality:	YERWADA
City:	PUNE
11.Area of the project	PUNE MUNICIPAL CORPORATION
12.IOD/IOA/Concession/Plan Approval Number	IN PROCESS
	IOD/IOA/Concession/Plan Approval Number: IN PROCESS
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NO CONSTRUCTION WORK IS INITIATED FOR PROPOSED CONSTRUCTION PLAN ONLY TEMPORARY SITE OFFICE IS THERE WHICH WILL BE DEMOLISHED DURING CONSTRUCTION PHASE
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	SANCTION FROM PUNE MUNICIPAL CORPORATION IS IN PROCESS
15.Total Plot Area (sq. m.)	8830.00
16.Deductions	459.69
17.Net Plot area	8402.06
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 24589.29
	b) Non FSI area (sq. m.): 20552.27
	c) Total BUA area (sq. m.): 45141.56
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2964.16
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	34.97 %
21.Estimated cost of the project	980000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	B+G+11	34.80
2	B	B+G+11	34.80
3	C	B+G+11	34.80
4	D	B+G+11	34.80
5	Club House	1	3.00

23.Number of tenants and shops	TENANTS - 216 & SHOPS - 31, Offices - 23
24.Number of expected residents / users	RESIDENTIAL - 1080 , COMMERCIAL - 727
25.Tenant density per hectare	250
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Right of way is 20 MT
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 MT
29.Existing structure (s) if any	TEMPORARY STRUCTURE OF SITE OFFICE WHICH WILL BE DEMOLISHED DURING CONSTRUCTION PHASE
30.Details of the demolition with disposal (If applicable)	-

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	117
	Recycled water - Flushing (CMD):	67
	Recycled water - Gardening (CMD):	2
	Swimming pool make up (Cum):	7.2
	Total Water Requirement (CMD) :	186
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	80
	Excess treated water	104
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	117
	Recycled water - Flushing (CMD):	67
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	7.2
	Total Water Requirement (CMD) :	186
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	80
	Excess treated water	106
Details of Swimming pool (If any)	PROPOSED SWIMMING POOL LOCATION IS ON PODIUM. SIZE IS 18' X 36' (DEPTH = 4'). TOTAL AREA = 60.11 SQM WATER CAPACITY FOR SWIMMING POOL = 72,576 L/DAY , MAKEUP WATER REQUIREMENT = 7257.6 L/DAY	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	Not applicable	112	112	Not applicable	11	101	Not applicable	101	101
Gardening	Not applicable	2	2	Not applicable	0	0	Not applicable	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon- 12 to 15 Mt. below ground level. Post monsoon- 4 to 6 Mt. below ground level
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	4
	Size of recharge pits :	2.0 M X 2.0 M X 1.5M
	Budgetary allocation (Capital cost) :	3,00,000.00
	Budgetary allocation (O & M cost) :	12,000.00
	Details of UGT tanks if any :	FOR UGT For Residential For Commercial FOR DOMESTIC Cap (m3) 150 25 FOR FIRE FIGHTING Cap (m3) 300 0
35.Storm water drainage	**Natural water drainage pattern:**	NORTH TO SOUTH (98 TO 97) 1 MT. DIFFRENCE
	Quantity of storm water:	1415 cu.mt (annual)
	Size of SWD:	300 MM
Sewage and Waste water	**Sewage generation in KLD:**	173
	STP technology:	MBBR
	Capacity of STP (CMD):	2 NO .OF STP WILL BE PROPOSED FOR RESIDENTIAL & COMMERCIAL. CAPACITY OF STP FOR RESIDENTIAL - 140 CMD, FOR COMMERCIAL CAPACITY - 45 KLD
	Location & area of the STP:	LOCATION OF STP WILL BE BETWEEN BUILDING D & BUILDING A. MASTER LAYOUT WITH SERVICES IS ATTACHED AS ANNEXURE II
	Budgetary allocation (Capital cost):	40,00,000.00
	Budgetary allocation (O & M cost):	13,00,000.00

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Waste will be generated during excavation is 19340 CUM. Will contain stone, aggregate & top soil.
	Disposal of the construction waste debris:	The debris and rubble removed would be used as filling material for leveling and for road construction. Top soil will be stored for landscaping
Waste generation in the operation Phase:	**Dry waste:**	325 KG/DAY
	Wet waste:	397 KG/DAY
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	13 Kg/Day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	HANDED OVER TO AUTHORIZED VENDOR
	Wet waste:	WILL BE TREATED IN ORGANIC WASTE COMPOSTING MACHINE AND USED AS MANURE
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	DRY SLUDGE USED AS MANURE
	Others if any:	NA
Area requirement:	**Location(s):**	Services layout attached
	Area for the storage of waste & other material:	12.8 SQM
	Area for machinery:	28 SQM
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15,00,000.00
	O & M cost:	3,00,000.00

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not applicable	7.5 - 8.5	6.5 – 7.5	NA
2	Oil & Grease	mg/l	10	< 5	-
3	BOD	mg/l	250 – 300	< 10	NOT TO EXCEED 10
4	COD	mg/l	300 – 400	< 30	NOT TO EXCEED 100
5	TSS	mg/l	350-450	< 5	NOT TO EXCEED 50
6	TDS	mg/l	-	<1000	-

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	180.25 SQM
	No of trees to be cut :	0
	Number of trees to be planted :	93
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	5

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Murraya exotica	Kamini	08	Native species, Fragrant flowers
2	Anthocephalus kadamba	Kadamb	09	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits
3	Azardirachta indica	Neem	08	Medicinal value, To control soil erosion. To improve soil erosion
4	Bauhinia blackiana	Kanchanraj	04	Every part of the plant is medicinal, Drought tolerant species
5	Bauhinia purpurea	Gulabi kanchan	04	Every part of the plant is medicinal, Drought tolerant species.
6	Butea monosperma	Palas	04	Medicinal value, Bird attracting species , To control soil erosion
7	Cassia fistula	Bahawa	04	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
8	Choclospermum religiosum	Sonsawar	04	Medicinal value, Native species
9	Cordia dichotoma	Bhokar	04	Medicinal value, Edible fruits,
10	Dalbergia sissoo	Shisav	04	Medicinal value, Bird attracting species
11	Ficus arnottiana	Payar	04	Drought tolerant species, Bird attracting species. To control soil erosion
12	Ficus glomerata	Umber	04	Medicinal value, Edible fruits, Bird attracting species
13	Ficus retusa	Nandruk	04	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant

14	Mangifera indica	Mango	04	Edible fruit, Bird attracting species.
15	Michelia champaca	Sonchaffa	04	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing
16	Roystonia regia	Bottle palm	08	Ornamental plant, Medicinal value, Birds & bats eat fruits.
17	Syzygium cumini	Jamun	04	Medicinal value, Edible fruits,
18	Caryota urens	Fishtail palm	08	Grown in any type of soil. Very Hardy.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	2002 KW
	During Operation phase (Demand load):	1005 KW
	Transformer:	2 x 630 KVA
	DG set as Power back-up during operation phase:	125 KVA X 1 No
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels	13500 KWH / Annum
2	Timer Logic Controller	39749 KWH / Annum
3	Electronic V3F drive for Lifts	26140 KWH / Annum

4	Solar Water Heater	300672 KWH / Annum

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water generation	Not applicable	STP of capacity140 & 30 CMD will be installed in construction phase
Wet waste	Not applicable	OWC machine will be installed
Noise generation from DG Set	Not applicable	Acoustic enclosure for DG set will be installed

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	58,00,000
	O & M cost:	3,00,000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Erosion Control	Water for dust suppression measures & Soil Preservation	0.40
2	Site Safety	Barricading & nets	0.50
3	Site Sanitation	Mobile Toilets etc.	1.00
4	Disinfection & Health Check Up	For Labors	0.50
5	Environment Monitoring	Air, Water, Noise & DG Stack	1.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	2 no of STP having capacity 140 & 30 CMD	40	13
2	Solid waste Management	Organic waste composting	15	3
3	Storm water network	Internal storm water networking	13	0.60
4	Rain Water Harvesting	4 no of recharge pits	3	0.12
5	Landscape	93 number of trees	3	0.47
6	Renewable Energy	solar water heater & streetlighting	58	3
7	Environmental Monitoring	Air, water, noise, manure monitoring, six monthly compliance's etc.	-	2.60
8	Site safety training and awareness	Mock up drill & awareness, training	5	1

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	1
	Number and area of podia:	NA
	Total Parking area:	11142.80 SQM
	Area per car:	35 SQM for basement, 30 SQM for stilt
	Area per car:	35 SQM for basement, 30 SQM for stilt
	Number of 2-Wheelers as approved by competent authority:	605
	Number of 4-Wheelers as approved by competent authority:	301
	Public Transport:	nearest bust stop
	Width of all Internal roads (m):	6 mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NIL
	Other Relevant Informations	NA

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 8830.00 m^2, BUA of 45141.56 m^2 and FSI area of 24589.29 m^2. PP proposes to construct 4 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 following conditions.

Specific Conditions by SEAC:

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

FINAL RECOMMENDATION

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

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Proposed IT Offices Construction Project at S. No.228 (P), Plot 4 B, Lohegaon, Tal. Havel, Dist. Pune

Is a Violation Case: No

1.Name of Project	Proposed IT Offices Construction Project
2.Type of institution	Private
3.Name of Project Proponent	Mr. Milind Lunkad/ Mr. Ashwin Lunkad
4.Name of Consultant	Pollution and Ecology Control Services
5.Type of project	IT Offices Construction Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No.228 (P), Plot 4 B
9.Taluka	Haveli
10.Village	Lohegaon
Correspondence Name:	Mr. Nikhil Agrawal
Room Number:	1, Modibaug
Floor:	Second Floor
Building Name:	1, Modibaug, Commercial Building
Road/Street Name:	Ganesjkhind Road, Near Agriculture Collage
Locality:	Shivaji Nagar
City:	Pune
11.Area of the project	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	IOD from PMC is in Process
	IOD/IOA/Concession/Plan Approval Number: Sanction is in process from PMC
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Nil
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	8,150 Sqm
16.Deductions	815 Sqm for 10% Open Space
17.Net Plot area	8,150 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 24,450 .00
	b) Non FSI area (sq. m.): 23,046.99
	c) Total BUA area (sq. m.): 47496.99
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	3,010.40
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	37 %
21.Estimated cost of the project	850000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1 BUILDING	2 B + G + 8	34.9 m from ground

23.Number of tenants and shops	one building with 8 floor.
24.Number of expected residents / users	Total IT office Occupant Load: 4,075 nos.
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 mtrs
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 mtrs
29.Existing structure (s) if any	Temporary sheds for storage of our other site construction material
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):	104 (Including Club House)
	Recycled water - Flushing (CMD):	82
	Recycled water - Gardening (CMD):	11
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	197
	Fire fighting - Underground water tank(CMD):	100 CUM
	Fire fighting - Overhead water tank(CMD):	20 CUM
	Excess treated water	83 CUM

Wet season:	**Source of water**	PMC
	Fresh water (CMD):	104 (Including Club House)
	Recycled water - Flushing (CMD):	82
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	186
	Fire fighting - Underground water tank(CMD):	100 CUM
	Fire fighting - Overhead water tank(CMD):	20 CUM
	Excess treated water	94 CUM
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	104	104	Not applicable	10	10	Not applicable	94	94
Gardening	Not applicable	11	11	Not applicable	0	0	Not applicable	11	11

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10 mtrs
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2 X 2 X 1
	Budgetary allocation (Capital cost) :	2.5 lakhs
	Budgetary allocation (O & M cost) :	0.5 lakhs
	Details of UGT tanks if any :	1. Domestic UG tank Capacity: 65 m3 2. Drinking Water UG Tank Capacity: 65 m3 3. Flushing UG tank Capacity : 50 m3 4• Fire UG tank Capacity : 100 m3

35.Storm water drainage	**Natural water drainage pattern:**	As per Contour
	Quantity of storm water:	8 CUM/Min
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	176
	STP technology:	MBR
	Capacity of STP (CMD):	1 no of STP of 180 KLD Capacity
	Location & area of the STP:	Given in the master plan
	Budgetary allocation (Capital cost):	25 lakhs
	Budgetary allocation (O & M cost):	2.5 lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 kg/day total solid waste from labour camp for 50 labours
	Disposal of the construction waste debris:	Debris shall 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:**	631 kg/day
	Wet waste:	387 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	8 kg/day
	Others if any:	E Waste generated: Approx 47 kg/annum
Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWACH.
	Wet waste:	Will be treated in Organic waste converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure for landscaping of own premises
	Others if any:	E Waste Generated will be handed over to authorized E waste handling vendor/ Dealer
Area requirement:	**Location(s):**	Given in Master Plan
	Area for the storage of waste & other material:	15 SQM
	Area for machinery:	40 SQM
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2 lakhs
	O & M cost:	0.25 lakhs
37.Effluent Charecterestics		

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	Mandatory RG Area: 815.00 m2, Green on peripheral plantation: 538.07 m2; Green Area on Slab: 520.90 SQM. Total RG Area + Slab Area: 1,873.97 m2.
	No of trees to be cut :	0
	Number of trees to be planted :	99 (102 TREES REQUIRED; 3 TREES EXISTING)
	List of proposed native trees :	List of proposed trees attached as annexure with form 1 & 1A & Given below
	Timeline for completion of plantation :	5 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Magnifera indica	Mango	18	Fruit bearing plant
2	Ficus glomerata	Cluster Fig	20	Fruit bearing plant

3	Dalbergia latifolia	Indian Rosewood	15	shade giving tree
4	Chordia dichtoma	Indian Cherry	16	Fruit bearing plant
5	Plumeria rubra	Firangapani	10	Ornamental Plant
6	Syzigium cumini	Jambhul	10	Fruit bearing plant
7	Phyllunthus emblica	Gooseberry	10	Fruit bearing 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	Canna dwarf	0.45 m	100
2	Cassia alata	0.45 m	100
3	Golden duranta	0.45 m	150
4	Hamelia dwarf	0.45 m	75

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	160 KVA
	DG set as Power back-up during construction phase	200 KVA
	During Operation phase (Connected load):	3,472.82 KVA
	During Operation phase (Demand load):	2,604.61 KVA
	Transformer:	2 nos. of 2,500 KVA
	DG set as Power back-up during operation phase:	3 nos. of DG sets of 1,000 KVA capacity
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. % of Energy saving per annum by using PV Solar system to MSEDCL grid: 21.93 % of common area load.
2. Energy saving by LED & T5 lighting system at common areas: 50 % of common area load
3. Energy Saving from transformers: 14 % of total connected load

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy saving per annum by using PV Solar system to MSEDCL grid	21.93 %
2	Energy saving by LED & T5 lighting system at common areas	50 %
3	Energy Saving from transforemrs	14 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water generated	Not applicable	STP will be installed in operation phase to treat waste water
Solid waste generation	Not applicable	OWC will be installed to treat the biodegradable waste
DG Set	Not applicable	DG sets will be installed for Power Backup

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	For Solar PV Panels: Capital Cost 14,70,000/- & For DG Sets: Capital Cost: 1,50,00,000/-
	O & M cost:	For Solar PV Panels: O & M Cost: 1,47,000/- ; For DG Sets: O & M Cost: 15,00,000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Erosion Control	Water for dust suppression measures & Soil Preservation	0.4
2	Site Safety	Barricading & nets	0.3
3	Site Sanitation	Mobile Toilets etc.	0.8
4	Disinfection & Health Check Up	For Labours	0.75
5	Environment Monitoring	Air, Water, Noise & DG Stack	0.3

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water	STP	25	2.5
2	Water	RWH	2.5	0.5
3	Solar Street Lighting	PV Cells	14.70	1.47
4	Land Environment	Gardening	1	0.4
5	Solid Waste	OWC	2	0.25
6	Storm Water Networking	Inlet piping system	2.5	0.25
7	Environmental Monitoring	Air, Water, Noise & DG Stack	0	2.60

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2
Parking details:	**Number and area of basement:**	2 basements with total area: 10,710.62 SQM
	Number and area of podia:	NO
	Total Parking area:	15,581.4 SQM (10,710.62 Sqm of Basement + 2006.72 Sqm of Open Parking Area + 2864.06 SQM of Top Terrace Parking Area)
	Area per car:	35 SQM Considering Stack Parking
	Area per car:	35 SQM Considering Stack Parking
	Number of 2-Wheelers as approved by competent authority:	1,467
	Number of 4-Wheelers as approved by competent authority:	Total 612 cars out of these 306 are stack car parking
	Public Transport:	NA
	Width of all Internal roads (m):	6
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP was **absent** hence the proposal was deferred.

DECISION OF SEAC

PP was **absent** hence the proposal was deferred.

Specific Conditions by SEAC:

1) Nil.

FINAL RECOMMENDATION

Kindly find SEIAA decision above.

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for ARV Royale -Proposed Residential Development

Is a Violation Case: No

1.Name of Project	ARV-Royale
2.Type of institution	Private
3.Name of Project Proponent	M/s Vedant Properties
4.Name of Consultant	M/s. Ultra-Tech (Environmental Consultancy & Laboratory) NABET Certificate No: NABET/EIA/1417/SA0011
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	S.no 63/2B/2A & 63/2B/2D,Handewadi Road, Near JSPM College, Hadapsar Pune -28
9.Taluka	Haveli
10.Village	Hadapasr
Correspondence Name:	Mr.Rahul Premprakash Goyal
Room Number:	ARV Group ,Office No 311
Floor:	--
Building Name:	City Tower
Road/Street Name:	Dhole Patil Road
Locality:	--
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: --
	Approved Built-up Area: 33805.48
13.Note on the initiated work (If applicable)	We have initiated the work on site under consideration for environment clearance as per the environment clearance letter no SEAC-III/CR-267/TC-II dated 18th July, 2016. Completed work: FSI : 15536.99 sqm Non-FSI: 10475.58 sqm Total B/UP : 26012.57 sqm
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	21240 sqm
16.Deductions	6816.10 sqm
17.Net Plot area	14423.90 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 31039.91 sqm
	b) Non FSI area (sq. m.): 29253.72 sqm
	c) Total BUA area (sq. m.): 60293.63
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 20908.13
	Approved Non FSI area (sq. m.): 12897.35
	Date of Approval: 25-04-2018
19.Total ground coverage (m2)	3386.40
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.47%
21.Estimated cost of the project	700000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A(work completed)	Parking+11	35.80
2	Building B(Under construction)	Parking+11	35.80
3	Building C(Under Construction)	Parking+Stilt+11	35.10
4	Building D	Basement+Ground+Mezzanine+Stilt+10	35.10
5	Building E	Basement+Ground+Mezzanine+Stilt+10	35.10
6	Commercial:Block A (Completed),Block B,Block C	Basement+Ground+Mezzanine+1	9.60
7			

23.Number of tenants and shops	No. of Tenements:402 No.of Shops:126
24.Number of expected residents / users	Residential users:2010;Commercial users:1060
25.Tenant density per hectare	208
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: Kondhwa Budruk Fire station(4.6 kms) Road width:24m wide D.P Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	3 Buildings and club house under construction as per existing Environment Clearance received.
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	202
	Recycled water - Flushing (CMD):	122
	Recycled water - Gardening (CMD):	20
	Swimming pool make up (Cum):	6
	Total Water Requirement (CMD) :	350
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	155
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	202
	Recycled water - Flushing (CMD):	122
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	6
	Total Water Requirement (CMD) :	330
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	175
Details of Swimming pool (If any)	Dimension of swimming Pool: 41.80 m2 Details of plant and machinery used for treatment of swimming pool: High rate sand filters, filter media, self-priming pump, control panel for pump, vacuum fitting. Chemicals required for maintaining the swimming Pool: TCCA(Trichloro icocynuric acid)granules Disinfection by : Ozonation	

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:**	18-26 BGL
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	7
	Size of recharge pits :	2m x 2m x 2m
	Budgetary allocation (Capital cost) :	Rs.23 Lakhs
	Budgetary allocation (O & M cost) :	Rs.2.0 Lakhs/annum
	Details of UGT tanks if any :	Raw water Tank:81m3/day Treated water tank:161 m3/day Drinking water tank:45 m3/day Fire tank:250 m3/day
35.Storm water drainage	**Natural water drainage pattern:**	East to North
	Quantity of storm water:	19.30m3 /min
	Size of SWD:	External:200mm-450 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	297
	STP technology:	Moving Bed Bio Reactor(MBBR) Technology
	Capacity of STP (CMD):	327
	Location & area of the STP:	As per services layout
	Budgetary allocation (Capital cost):	Rs.69 Lakhs
	Budgetary allocation (O & M cost):	Rs.15 Lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Rs.25 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:**	537 kg/day
	Wet waste:	653 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	21 kg/day
	Others if any:	Not Any

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWACH
	Wet waste:	Will be treated in OWC
	Hazardous waste:	Will be handed over to authorized vendors.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as manure for landscaping
	Others if any:	Not Any
Area requirement:	**Location(s):**	As per services layout
	Area for the storage of waste & other material:	84 sqm
	Area for machinery:	16 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.18 Lakhs
	O & M cost:	Rs.10 Lakhs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	--	HSD IS 1460	1	4.27	106	550+/-50

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Not applicable	250 kVA	250 kVA
41.Source of Fuel		Authorised vendor		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	1753.34
	No of trees to be cut :	0
	Number of trees to be planted :	322
	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	Azardirachta indica	Neem	22	Medicinal value, To control soil erosion, To improve soil erosion
2	Bahunia racemosa	Apta	11	Every part of the plant is medicinal, Drought tolerant species.
3	Caryota urens	Fish Tail palm	7	Grown in any type of soil. Very Hardy.
4	Citrus species	Lemon	12	Medicinal value, Edible fruit.
5	Erythrina indica	Pangara	6	Fragrant flowers, Drought tolerant species, Birds attracting
6	Gmelina arborea	shivan	12	Medicinal value, Drought tolerant species, Bird attracting species.
7	Mimosups elengii	Bakul	13	Fragrant flowers, Medicinal value, To control soil erosion.
8	Murraya koengii	Kadipatta	10	Medicinal value, Edible leaves.
9	Aegle marmoles	Bel	13	Medicinal value, Drought tolerant species.
10	Nyctanthus arbortristis	Parijatak	08	Fragrant flowers, Medicinal value,
11	Putrnjiva roxburghii	Putrnjiva	08	Medicinal value, Drought tolerant species,
12	Roystonia regia	Bottle palm	16	Ornamental plant, Medicinal value, Birds & bats eat fruits.
13	Ailanthus excelsa	Maharukh	12	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
14	Albizia lebek	Shirish	12	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
15	Anthocephalus kadamba	Kadamb	10	Medicinal value, To control soil erosion,
16	Azardirachta indica	Neem	11	Medicinal value, To control soil erosion. To improve soil erosion
17	Bauhinia blackiana	Kanchanraj	12	Every part of the plant is medicinal,Drought tolerant species.

18	Bauhinia purpurea	Gulabi kanchan	12	Every part of the plant is medicinal,Drought tolerant species.
19	Butea monosperma	Palas	12	Medicinal value, Bird attracting species ,To control soil erosion.
20	Cassia fistula	Bahawa	12	Medicinal value, Drought tolerant species, Very ornamental,Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
21	Choclospermum religiosum	Sonsawar	14	Medicinal value, Native species
22	Cordia dichotoma	Bhokar	8	Medicinal value, Edible fruits
23	Dalbergia sissoo	Shisav	8	Medicinal value, Bird attracting species ,
24	Ficus arnottiana	Payar	8	Drought tolerant species, Bird attracting species. To control soil erosion.
25	Ficus glomerata	Umber	8	Medicinal value, Edible fruits, Bird attracting species
26	Ficus retusa	Nandruk	8	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.
27	Phyllanthus emblica	Awla	8	Medicinal value, To control soil erosion.
28	Mangifera indica	Mango	8	Edible fruit, Bird attracting species.
29	Michelia champaca	Son chaffa	8	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
30	Pongamia	Karanj	6	Medicinal value,
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50KVA
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	2336 KW
	During Operation phase (Demand load):	1230 KW
	Transformer:	2 x 630 kVA
	DG set as Power back-up during operation phase:	1 x 250 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Any

48.Energy saving by non-conventional method:

Solar PV Panels for common area lighting
Timer logic controller
Electronic V3F drive for lifts
Solar water heater

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels for common area lighting	0.41
2	Timer logic controller	1.22
3	Electronic V3F drive for lifts	0.33
4	Solar water heater	13.9

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:**	Rs.94.51Lakhs
	O & M cost:	Rs.3.61 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	Erosion control, Dust suppression measures and barricading	--	3.00
2	Site safety	--	2.00

3	Site sanitation	--	2.00
4	Disinfection and health check-up	--	2.00
5	Environment monitoring	--	3.00
6	Total	--	12.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environment monitoring	--	--	12.00
2	Swimming Pool	--	5.00	1.00
3	STP(Including external drainage connection)	--	69.00	15.00
4	Solid waste Management	--	18.00	10.00
5	Solar Water heating	--	94.5	3.61
6	RWH	--	23.00	2.00
7	WTP	--	15.00	1.25
8	Storm water networking(Including external SWD)	--	48.00	1.00
9	Total	--	272.5	45.86

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:**	Basement-1 Area of the Basement-2605 m2
	Number and area of podia:	Podium -1 Area of the podium:8440 m2
	Total Parking area:	16140 sqm
	Area per car:	35
	Area per car:	35
	Number of 2-Wheelers as approved by competent authority:	158
	Number of 4-Wheelers as approved by competent authority:	619
	Public Transport:	Ramya Nagari Bhosale Nagar PMPML bus stop:0.07kms
	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	B2
	Court cases pending if any	Not Any
	Other Relevant Informations	Not Any
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 21240 m^2, BUA of 60293.63 m^2 and FSI area of 31039.91 m^2. PP proposes to construct 6 no. residential & commercial buildings.

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

PP has satisfactorily complied with the points raised in 72nd meeting of SEAC-3.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Nil.

FINAL RECOMMENDATION

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

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Environment Clearance for Proposed Residential Development

Is a Violation Case: No

1.Name of Project	ARV - New Town
2.Type of institution	Private
3.Name of Project Proponent	M/s Vedant Infracon through Mr Rahul Premprakash Goyal
4.Name of Consultant	Ultra-Tech
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	We have received environment Clearance vide letter no SEAC-III-2014/CR-313/TC-III dated 20th May, 2015.
8.Location of the project	S. No 14/1, 14/2, 14/3, 14/4, 14/5, 14/6, 14/7, 15/4, 16/3/3, Pisoli, Tal. Haveli, Dist Pune
9.Taluka	Haveli
10.Village	Pisoli
Correspondence Name:	Mr. Rahul Premprakash Goyal for M/s Vedant Infracon
Room Number:	Office No 311
Floor:	3rd Floor
Building Name:	City Tower
Road/Street Name:	Dhole Patil Road, 411001
Locality:	Camp
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Applied for full potential
	IOD/IOA/Concession/Plan Approval Number: Sanction received from local planning authority
	Approved Built-up Area: 61975.68
13.Note on the initiated work (If applicable)	We have initiated the work on site under consideration for environment clearance as per the environment clearance letter no SEAC-III-2014/CR-313/TC-III dated 20th May, 2015. Completed work: FSI: 13,534.44 m2 Non FSI: 10,677.99 m2 Total BUA: 24,212.43 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	59,100.00 sqm
16.Deductions	Amenity: 8,865.00 sqm
17.Net Plot area	50,235.00 sq m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 67,352.05 sq m
	b) Non FSI area (sq. m.): 40,094.72 sqm
	c) Total BUA area (sq. m.): 107446.77
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 54,244.36
	Approved Non FSI area (sq. m.): 7731.32
	Date of Approval: 24-02-2015
19.Total ground coverage (m2)	8,744.72
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	17.41%
21.Estimated cost of the project	3000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A1, 1 number (Under construction)	P+11	34.20
2	Wing A2, 1 number	LGP+UGP+11	35.70
3	Wing A3, 1 number	LGP+UGP+11	35.70
4	Wing A4, 1 number	LGP+UGP+11	35.70
5	Wing B1, 1 number (Under construction)	P+11	34.20
6	Wing B2, 1 number (Under construction)	P+11	34.20
7	Wing B3, 1 number (Under construction)	P+11	34.20
8	Wing B4, 1 number	P+11	34.20
9	Wing B5, 1 number	P+11	34.20
10	Wing B6, 1 number	P+11	34.20
11	Wing C1, 1 number	B+P+9	28.50
12	Wing C2, 1 number	B+P+9	28.50
13	Wing C3, 1 number	B+P+9	28.50
14	Wing C4, 1 number	B+P+10	31.35
15	Wing D, 1 number	LG + UG + Mezz. + 1	10.05
16	Row House, 1 number	G+2	9.00
17	Club House, 2 numbers	G+1	8.85

23.Number of tenants and shops	No of tenements: 1000 No. of shops: 29
24.Number of expected residents / users	Residential users: 5000, Commercial users: 226
25.Tenant density per hectare	199
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: kondhwa budruk fire station(8.4 kms) Road width: 15 m wide R.P Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9 m
29.Existing structure (s) if any	4 buildings and club house under construction as per existing EC.
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pisoli Grampanchayat
	Fresh water (CMD):	476
	Recycled water - Flushing (CMD):	232
	Recycled water - Gardening (CMD):	65
	Swimming pool make up (Cum):	3, through tanker
	Total Water Requirement (CMD) :	776
	Fire fighting - Underground water tank(CMD):	595
	Fire fighting - Overhead water tank(CMD):	20 m3 per building
	Excess treated water	340
Wet season:	**Source of water**	Pisoli Grampanchayat
	Fresh water (CMD):	476
	Recycled water - Flushing (CMD):	232
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	3, through tanker
	Total Water Requirement (CMD) :	776
	Fire fighting - Underground water tank(CMD):	595
	Fire fighting - Overhead water tank(CMD):	20 m3 per building
	Excess treated water	405
Details of Swimming pool (If any)	Dimensions of Pool: 20 ft X 40 ft X 4 ft Water Requirement: 90 KL Make up volume: 3 KL (through tanker) Details of plant and machinery used for treatment of Swimming pool water: Filter, self priming pump, control panel for pump, hair and link strainer, S/F main drain in white ABS, S/F vacuum point in white ABS, S/F inlet point in white ABS, overflow grating Disinfection: chlorination			

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	476	476	Not applicable	48	48	Not applicable	428	428
Domestic	Not applicable	232	232	Not applicable	23	23	Not applicable	209	209
Gardening	Not applicable	65	65	Not applicable	65	65	Not applicable	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer season: 11.8 m to 19.4 m BGL, Rainy Season: 5 to 8 m BGL, Winter season: 8.40 to 13.70 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	BA
	Quantity of recharge pits:	20
	Size of recharge pits :	2.5m x 2.5m x 1.60 m with RWH pit with 60 m deep 6” dia bore well via 2 no of 0.9 m dia 1.0 m deep de siltation pits
	Budgetary allocation (Capital cost) :	10.5
	Budgetary allocation (O & M cost) :	0.75
	Details of UGT tanks if any :	Raw water Tank: 198 m3 Domestic water tank: 391 Drinking water tank:113 Fire tank: 595
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	3.41 m3 /min
	Size of SWD:	External: 200 mm-750 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	617
	STP technology:	Fluidized Aerobic bioreactor (FAB) Technology
	Capacity of STP (CMD):	STP 1: 245 KLD, STP 2: 265 KLD, STP 3: 140 KLD, TOTAL: 650 KLD
	Location & area of the STP:	As per services layout.
	Budgetary allocation (Capital cost):	180 Lakh
	Budgetary allocation (O & M cost):	41 lakh/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	15 Kg/day
	Disposal of the construction waste debris:	,392 m2 topsoil will be preserved for landscaping. Remaining excavated material will be used for back filling and levelling of the plot and remaining will be disposed to authorized sites. MSW will be handed over to ghanta gadi
Waste generation in the operation Phase:	**Dry waste:**	914 Kg/day
	Wet waste:	1443 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	43 kg/day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWACH
	Wet waste:	Will be treated in OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure for landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	As per services layout
	Area for the storage of waste & other material:	60 sqm X 2 OWC of 600 kg each & 1 OWC of 400 kg
	Area for machinery:	12 sqm X 2 OWC of 600 kg each & 1 OWC of 400 kg
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	43.5 lakh
	O & M cost:	24.60 lakhs/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1 no of 125 kVA DG set	Diesel 20.4 ltr/hr	1	4.22 m above ground	0.02	513 C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Not applicable	20.4 ltr/hr	20.4 ltr/hr
41.Source of Fuel		Authorised dealer		
42.Mode of Transportation of fuel to site		by road		

43.Green Belt Development	**Total RG area :**	Required: 5,910.00 m2 Provided: 10,400.06 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	815
	List of proposed native trees :	Native trees are proposed
	Timeline for completion of plantation :	Till the completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azardirachta indica	Neem	32 + 17 on boundary	Medicinal value, To control soil erosion. To improve soil erosion
2	Bauhinia racemosa	Apta	40	Every part of the plant is medicinal, Drought tolerant species.
3	Caryota urens	Fish tail palm	35	Grown in any type of soil. Very Hardy.
4	Schleicahera oleosa	Kusum	36	Native species, Fragrant flowers.
5	Dalbergia sisoo	shisav	43 + 20 on boundary	Medicinal value, Bird attracting species
6	Erythrina indica	Pangara	20	Fragrant flowers, Drought tolerant species, Birds attracting
7	Gmelina arborea	Shivan	32	Medicinal value, Drought tolerant species, Bird attracting species.
8	Mimosups elengii	Bakul	40	Fragrant flowers, Medicinal value, To control soil erosion.
9	Aegle marmelos	Bel	36	Medicinal value, Drought tolerant species,
10	Nyctanthus arbortristis	Parijatak	36	Fragrant flowers, Medicinal value,
11	Putranjiva roxburghii	Putranjiva	37	Medicinal value, Drought tolerant species,
12	Roystonia regia	Bottle palm	30	Ornamental plant, Medicinal value, Birds & bats eat fruits.

13	Murraya exotica	Kamini	40	Native species, Fragrant flowers
14	Ailanthus excelsa	Maharukh	16 + 16 on boundary	Medicinal value, Drought tolerant species.
15	Albizia lebek	Shirish	13	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species
16	Anthocephalus kadamba	Kadamb	16	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
17	Bauhinia blackiana	Kanchanraj	16	Every part of the plant is medicinal, Drought tolerant species.
18	Bauhinia purpurea	Gulabu Kanchan	16	Every part of the plant is medicinal, Drought tolerant species.
19	Butea monosperma	Palas	17	Medicinal value, Bird attracting species , To control soil erosion.
20	Cassia fistula	Bahava	20	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
21	Choclospermum religiosum	Son sawar	16	Medicinal value, Native species
22	Cordia dichotoma	Bhokar	16	Medicinal value, Edible fruits,
23	Ficus arnottiana	Payar	20	Drought tolerant species, Bird attracting species. To control soil erosion.
24	Phyllanphus emblica	Awala	13	Medicinal value, Edible fruits, Bird attracting species
25	Ficus retusa	Nandruk	17	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.
26	Mangifera indica	Mango	20	Edible fruit, Bird attracting species.
27	Michelia champaca	Son chafa	17	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
28	Syzygium cumini	Jamun	20	Medicinal value, Edible fruit.
29	Pongamia pinnata	Karanj	16	Medicinal value, Drought tolerant species, To control soil erosion, Hardy plant.
30	Saraca indica	Sita Ashok	16	Medicinal value, Religious plant.
31	Ficus glomerrata	Unbar	20	Medicinal value, Edible fruits, Bird attracting species
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 kVA
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	4954 KW
	During Operation phase (Demand load):	2282 KW
	Transformer:	4 x 630 kVA
	DG set as Power back-up during operation phase:	3 x 125 kVA
	Fuel used:	diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Timer logic controller 1.96
Electronic V3F drive for lifts 0.60
Solar water heater 18.61
Solar street lights 0.73

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Timer logic controller	1.96
2	Electronic V3F drive for lifts	0.60
3	Solar water heater	18.61
4	Solar street lights	0.73

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water	Not applicable	STPs 1 X 245 KLD 1 X 264 KLD 1 X 140 KLD
Solid waste	Not applicable	3 X 600 Kg/day

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	110.5 lakh
	O & M cost:	8.22 lakh/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Air	Erosion control, Dust suppression measures and barricading	3.00
2	Safety	Site safety	2.00
3	Socio economic	site sanitation	2.00
4		Disinfection and health check-up	2.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage	STP	153.5	38.16
2	Solid waste	OWC	43.50	24.60
3	Swimming Pool	--	4.2	0.85
4	Storm water	RWH	10.5	0.75
5	Storm water	Storm water network	35.0	1.00
6	Green belt	RG area	167.92	26.87
7	Energy conservation	Energy conservation measures	110.5	8.22
8	solar	Solar water heating	140.0	2.0
9	Environmental Monitoring	monitoring	--	1.60

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

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

Parking details:	**Number and area of basement:**	1 Basement under C1, C2, C3 & C4 wings: 4932.71
	Number and area of podia:	Podium between wings B1 to B6 Area of the podium:2409.00 m2
	Total Parking area:	19,770.98 m2
	Area per car:	Open 25 sq m, Closed 30 sq m and basement 35 sq m
	Area per car:	Open 25 sq m, Closed 30 sq m and basement 35 sq m
	Number of 2-Wheelers as approved by competent authority:	1673
	Number of 4-Wheelers as approved by competent authority:	318
	Public Transport:	Wadachi wadi PMPML Bus stop
	Width of all Internal roads (m):	12 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (B2)
	Court cases pending if any	NA
	Other Relevant Informations	We have initiated the work on site under consideration for environment clearance as per the environment clearance letter no SEAC-III-2014/CR-313/TC-III dated 20th May, 2015.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for modernization of earlier Environmental clearance for total plot area of 59100.00 m^2, BUA of 107446.77 m^2 and FSI area of 67352.05 m^2. PP proposes to construct 15 no. of residential buildings +1 Row House +2 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.

PP has satisfactorily complied with the points raised in 72nd meeting of SEAC-3.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Nil.

FINAL RECOMMENDATION

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

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for LIGO INDIA PROJECT (AREA DEVELOPMENT PROJECT)

Is a Violation Case: No

1.Name of Project	LASER INTERFEROMETER GRAVITATIONAL WAVE OBSERVATORY (LIGO - INDIA)
2.Type of institution	Government
3.Name of Project Proponent	DIRECTORATE OF CONSTRUCTION, SERVICES & ESTATE MANAGEMENT (DCSEM)
4.Name of Consultant	B. S. ENVI - TECH PRIVATE LIMITED, SECUNDERABAD, TELANGANA STATE.
5.Type of project	Township or others
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	220,221,222,223,224 of Siddheshwar village, 420, 414, 413, 408, 397, 396, 399, 400, 401 435, 434, 406, 407, 391 425, 412 of Dughala village, 42 of Anjanawada, 65, 75 of Nandgaon village and 382 Savli (Bahenarav).
9.Taluka	Aundha (Nagnath)
10.Village	Dughala Village, Anjanwada Village, Siddheshwar Village, Nandgaon Village & Sawli (B) villages
Correspondence Name:	J. N. NAGARAJ Project Architect (R) (Authorized Signatory)
Room Number:	4N01
Floor:	4th floor
Building Name:	North Wing
Road/Street Name:	V.S.Bhavan
Locality:	Anushaktinagar
City:	Mumbai
11.Area of the project	Municipal/other area
12.IOD/IOA/Concession/Plan Approval Number	District Collector, Hingoli. **IOD/IOA/Concession/Plan Approval Number:** In process **Approved Built-up Area:** 64105
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.)	428.10 Ac (173.25 Ha) - 17,32,500.00 Sq.m
16.Deductions	Nil
17.Net Plot area	17,32,500.00 Sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 64105 **b) Non FSI area (sq. m.):** 0.00 **c) Total BUA area (sq. m.):** 64105
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA **Approved Non FSI area (sq. m.):** NA **Date of Approval:** 01-01-1900
19.Total ground coverage (m2)	59,515.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	3.435
21.Estimated cost of the project	12600000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Beam Tube Enclosure (BTE) on Arm – X	Tube length 4km	3.30
2	Beam Tube Enclosure (BTE) on Arm - Y	Tube length 4km	3.30
3	LVEA Building	1	19.25
4	SCBS Building	2	18.05
5	Administration Building	2	11.55
6	Site Office Building	1	3.60
7	ME&EP Building - 01	1	19.25
8	ME&EP Building - 02	1	19.25
9	Electrical Panel Room - 01	1	6.75
10	OSB Building	1	8.25
11	Sub Station & Chiller Yard Building	1	9.95
12	Main Entrance Guard House	1	4.60
13	Service Entrance Guard House	1	4.60
14	UG Tank & Pump Room	1	5.15
15	STP Building	1	7.00
16	VEA Building (END Station - X)	1	19.10
17	Sub Station & Chiller Yard Building (END Station - X)	1	9.95
18	UG Tank & Pump Room (END Station - X)	1	5.15
19	VEA Building (END Station - Y)	1	19.10
20	Sub Station & Chiller Yard Building(END Station - Y)	1	9.95
21	UG Tank & Pump Room(END Station - Y)	1	5.15
22	Mid Station-X Valve Room	1	14.75
23	Mid Station-Y Valve Room	1	14.75

23.Number of tenants and shops	NA
24.Number of expected residents / users	629 users
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)	NA

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12 m width
29.Existing structure (s) if any	Nil
30.Details of the demolition with disposal (If applicable)	Nil

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	NA	NA	NA	NA

32.Total Water Requirement

Dry season:	**Source of water**	Siddheshwar Dam and Bore wells
	Fresh water (CMD):	642.79
	Recycled water - Flushing (CMD):	Nil
	Recycled water - Gardening (CMD):	81.87
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	724.66
	Fire fighting - Underground water tank(CMD):	1
	Fire fighting - Overhead water tank(CMD):	Nil
	Excess treated water	Nil

Wet season:	**Source of water**	Siddheshwar Dam and Bore wells
	Fresh water (CMD):	642.79
	Recycled water - Flushing (CMD):	Nil
	Recycled water - Gardening (CMD):	81.87
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	724.66
	Fire fighting - Underground water tank(CMD):	1
	Fire fighting - Overhead water tank(CMD):	Nil
	Excess treated water	Nil
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	NA	724.66	724.66	NA	20.47	20.47	NA	102.34	102.34

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	200 m
	Size and no of RWH tank(s) and Quantity:	Two Nos. of Rain water Harvesting pond (30,450 cu.m)
	Location of the RWH tank(s):	In Corner Station area
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	600 Lakhs
	Budgetary allocation (O & M cost) :	60 Lakhs
	Details of UGT tanks if any :	Nil
35.Storm water drainage	**Natural water drainage pattern:**	Will not be Disturbed
	Quantity of storm water:	3,84,248 cu.m / annum
	Size of SWD:	NA

Sewage and Waste water	**Sewage generation in KLD:**	102.34
	STP technology:	RBC Technology
	Capacity of STP (CMD):	3 x 11.5 KLD and 2 x 34.5 KLD
	Location & area of the STP:	875.00 Sq.m
	Budgetary allocation (Capital cost):	200 lakhs
	Budgetary allocation (O & M cost):	20 Lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Cut and Fill 19,56,650 Cum
	Disposal of the construction waste debris:	Reused for leveling
Waste generation in the operation Phase:	**Dry waste:**	109.35 kg/day
	Wet waste:	6494.40 kg/day
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	25.51 Kg/day
	Others if any:	Nill
Mode of Disposal of waste:	**Dry waste:**	To local vendors / municipality
	Wet waste:	sent to organic waste converter for composting.
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	Used as manure for green belt and land scape
	Others if any:	Nil
Area requirement:	**Location(s):**	With in Corner Station
	Area for the storage of waste & other material:	Near STP
	Area for machinery:	Near STP
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	80 Lakhs for Organic Waste Converter (OWC)
	O & M cost:	8 Lakhs for Organic Waste Converter (OWC)

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	2 No 750 kVA DG sets	HSD	NA	5.5 above building height	0.25 m	300 Deg C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	5000 lts	5000 lts
41.Source of Fuel		from oil company dealer outlets		
42.Mode of Transportation of fuel to site		By Tankers		

43.Green Belt Development	**Total RG area :**	Green belt area 3,840 Sq.m and land scape area 1,92,580.00 Sq.m
	No of trees to be cut :	Nil
	Number of trees to be planted :	300 to 500 trees in green belt of Corner Station
	List of proposed native trees :	yesS.No Species Name Family Common Name (Marathi) Habitat 1 Abutilon indicum Linn. Malvaceae Chakrabhenda Shrub 2 Acacia auriculiformis A. cunn Mimoseae akashia Tree 3 Acacia catechu, Willd Mimoseae khair Shrub 4 Acacia leucophloea Willd Mimoseae Hewar Shrub 5 Acacia nilotica (Linn) Willd Mimoseae Vedibabul Tree 6 Acacia pennata Wild Mimoseae Shembarati Tree 7 Acacia polyacantha Wild Mimoseae ------- Tree 8 Acacia Senegal Wild Mimoseae Khair Tree 9 Acacia tortilis Hayne Mimoseae ---------- Tre
	Timeline for completion of plantation :	3 years form completion of construction of LIGO buildings.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachita indica A. Juss	Limba	100	Native Species
2	Derris indica (Lam.) Bennett	Karanja	50	Native Species
3	Diospyros melanoxylon Roxb	Tendu	50	Native Species

4	Eucalyptus hybrid	nilgiri	50	Native Species
5	Saracaa ashoka Roxb, De Wilde	Asoka	50	Native Species
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MAHATRANSCO
	During Construction Phase: (Demand Load)	500 kVA
	DG set as Power back-up during construction phase	1x62.5 kVA
	During Operation phase (Connected load):	5 MW
	During Operation phase (Demand load):	8 MW
	Transformer:	Nil
	DG set as Power back-up during operation phase:	2x750 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Nil

48.Energy saving by non-conventional method:

Implementation of 500 KWp solar photo voltaic system from roof top areas.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED bulbs, VVVF motors building management system	Nil

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste Water	NA	STP

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	500 Lahks for Solar photo voltaic
	O & M cost:	40 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	PPE, Barricading, Safety Equipment etc.,	Nil	390

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	1	Sewage Treatment Plants (5 Nos.)	200	20
2	2	Green belt	17	1
3	3	Landscaping	106	9
4	4	Storm water drains	500	40
5	5	Rain Water Harvesting	600	60
6	6	Organic waste converter (2 No. OWC 500)	80	8
7	7	Monitoring of Environmental parameters	-	5

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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:**	NA
	Number and area of podia:	NA
	Total Parking area:	3400 Sq.m
	Area per car:	28 Sq.m
	Area per car:	28 Sq.m
	Number of 2-Wheelers as approved by competent authority:	118 (2/4 Wheelers)
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	Bus facility will be provided
	Width of all Internal roads (m):	9 - 12
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(b)
	Court cases pending if any	None
	Other Relevant Informations	Nil
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 17,32,500.00 m^2, BUA of 64105 m^2 and FSI area of 64105 m^2. PP proposes to construct 2 Beam tube enclosures, LEVA building, SCBS building, Administrative building, site office building, 2 ME&EP buildings, Electrical panel room, OSB building, 3 Sub stations and a Chiller yard buildings , Main and Service Entrance Guard houses, 2 UG tanks and pump rooms, STP building, 2 VEA buildings and 2 Midsection valve rooms.

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

PP has satisfactorily complied with the points raised in 72nd meeting of SEAC-3.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Nil.

FINAL RECOMMENDATION

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

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Application for environmental clearance for Expansion of Ganga Platino project by Goel Eisha Capitals

Is a Violation Case: No

1.Name of Project	Ganga Platino
2.Type of institution	Private
3.Name of Project Proponent	Goel Eisha Capitals
4.Name of Consultant	Pollution and Ecology Control Services
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Previous EC vide no. 21-209/2007-IA.III and re validation letter dated 18 May 2013
8.Location of the project	S. No. 60/1/2
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	Swaran sigh Sohal
Room Number:	0
Floor:	6th
Building Name:	San Mahu complex
Road/Street Name:	Bund Garden Road
Locality:	Camp
City:	Pune
11.Area of the project	PMC
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number: In Process
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Total constructed work (FSI+ Non FSI): FSI: 18513.72 sqm; Non FSI: 35701.11 Total BUA: 54214.83 sqm as per previous EC and sanction vide no. CC/0166/2014 dated 21/04/2014
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	39000
16.Deductions	21516.35
17.Net Plot area	17483.65
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** FSI: 46845.24 sqm (Existing: 18513.72 + Proposed : 28331.52)
	b) Non FSI area (sq. m.): Non FSI: 49611.73 sqm (Existing 35701.96 + Proposed 13910.62)
	c) Total BUA area (sq. m.): 96458
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 37131.11
	Approved Non FSI area (sq. m.): 9551.7
	Date of Approval: 30-01-2018
19.Total ground coverage (m2)	10644
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	27.29 %
21.Estimated cost of the project	2290000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	P (1) [Existing]	GR+MEZZ+UPP FLR+18	60.85
2	Q (1) [Existing]	3 PARKING+18	58.00
3	R (1) [Existing]	3 PARKING+18	58.00
4	S (1)	3 PARKING + 20	65.6
5	T (1)	3 PARKING + 20	64.4
6	U (1)	3 PARKING + 20	64.40
7	V (1) [existing commercial]	3 PARKING+G+MEZZ+18.	58.8
8	Club house (1)	G + 1	5.9

23.Number of tenants and shops	Total Residential -504 flats and 17 shops a)Existing - Residential 208 flats and 17 shops b)Proposed – Residential 296 flats
24.Number of expected residents / users	Total Residential: 2520 No. and Commercial – 724 Existing : Residential : 1040 and commercial:724 Proposed: Residential : 1480
25.Tenant density per hectare	250 T/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)	36 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Building P.Q.R is complete, Commercial part of Bldg V is complete. S, T, U up to parking level complete
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):	247
	Recycled water - Flushing (CMD):	132
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	3000 lit
	Total Water Requirement (CMD) :	388
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25000 lit /building
	Excess treated water	198
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	247
	Recycled water - Flushing (CMD):	132
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	3000 lit
	Total Water Requirement (CMD) :	378
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	25000 lit /building
	Excess treated water	208
Details of Swimming pool (If any)	Main Pool Size: 20 m X 15.2 m X 1.20 m. 332 cum Kids pool : 6 m X 10.96 m X 0.6 m 39.45 cum Total water Requirement: 372 cum Water requirement for make up: 3000 lits per day Details of Plant & Machinery used for treatment of Swimming pool water: The filtration system comprises of skimmers, floor drains, hair and lint strainers, pump, multi-port valve, high rate sand filter and floor inlets Disinfection: 1. Chlorine Daily basis 2. Alum Once a fortnight 3. Soda Ash/Acid Once in a while to correct the pH if required	

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	103	144	247	10	14	24	93	130	223
Gardening	Not applicable	10	10	NA	10	10	NA	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	7 m - 8 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6 recharge bore with diameter 160 mm and depth 18-20 m
	Size of recharge pits :	1.5 m X 1.5 m X 3.0 m
	Budgetary allocation (Capital cost) :	1200000/-
	Budgetary allocation (O & M cost) :	35000/-pa
	Details of UGT tanks if any :	Domestic UG tank Capacity: 396 KL Treated Water UG tank Capacity: 213 KL Fire UG tank Capacity: 300 KL
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	693.22 m3/hr
	Size of SWD:	400 mm to 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	340
	STP technology:	MBBR
	Capacity of STP (CMD):	345 KLD (1)
	Location & area of the STP:	As per layout and area 185.62 sqm
	Budgetary allocation (Capital cost):	87,25,000
	Budgetary allocation (O & M cost):	28,800,000/- p.a

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1% of total raw material
	Disposal of the construction waste debris:	Back filling on same site and top soil for landscape
Waste generation in the operation Phase:	**Dry waste:**	571 kg/day [existing 275 + proposed 296]
	Wet waste:	790 kg/day [existing 346 + proposed 444]
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	129 Kg/day
	Others if any:	E waste : 550 kg/year

Mode of Disposal of waste:	**Dry waste:**	Through authorized vendor
	Wet waste:	Mechanical composter unit
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Oragnic waste composting machine
	Others if any:	E waste: Trough authrized vedor
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	33
	Area for machinery:	15
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	41.35 lakhs /-
	O & M cost:	1.80 lakhs /-p.a.

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not applicable	7 - 8.5	6.5 - 7.5	Not applicable
2	TSS	mg/l	200 -300	<5	Not exceed 50 mg/l
3	Oil and grease	mg/l	10	<5	Not applicable
4	BOD	mg/l	200 -300	<10	Not exceed 10 mg/l
5	COD	mg/l	350 -400	<30	Not exceed 100 mg/l
6	TDS	mg/l	--	<1000	Not applicable
7	Total Nitrogen	mg/l	40 -50	< or equal to 10	Not applicable
8	Ammonical nitrogen	mg/l	--	< or equal to 1	Not applicable
9	Phosphate	mg/l	5 -7	< or equal to 2	Not applicable
10	Coliforms	MPN/100 ml	1000000	Nil	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 :**	1583.00 sqm
	No of trees to be cut :	NA
	Number of trees to be planted :	150
	List of proposed native trees :	All are native
	Timeline for completion of plantation :	1 year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ailanthus excelsa	Maharukh	10	Large, Deciduous, Contributes in combating Air Pollution
2	Swetenia mahagony	Mahagony	10	Fast growing medium height tree with symmetrical crown
3	Pongamia pinnate	Karanj	10	Large, Evergreen Tree with large canopy
4	Peltophermum	Copper pod	10	Upright, large semi-evergreen tree with bright yellow flowers
5	Tabebuia argentia	Trumpet tree	5	Medium height deciduous tree with bright yellow flowers, good for avenues
6	Spathodea campanulata	African tulip tree	5	Large upright tree, ideal for avenues. Bright orange flowers in profusion during Spring.
7	Saraca indica	Sita ashok	10	Small, native evergreen tree with a round and compact crown.
8	Mangifera indica	Mango	10	Medium height tree with multiple branching. Attracts birds for its fruit.
9	Tabebuia rosea	Pink trumpet tree	5	Tall, fast-growing deciduous tree with profuse pink flowers
10	Lagerstromia flosreginea	Lagerstroma	5	Medium height ornamental tree owing to pink-purple flowers. Branching is crooked and irregular.

11	Cassia fistula	Bahava	10	Large tropical ornamental tree with bright yellow flowers. Good for avenues.
12	Michelia champaca	Champa	5	Large tree with a spread canopy. Large fragrant flowers
13	Erythrina indica	Indian coral tree	5	Large spreading decisuous tree with bright red flowers
14	Psidium guajava	Guava tree	5	Medium height tree, irregular shaped crown. Attracts birds for its fruit.
15	Nyctanthes arbortristis	Parijatak	10	Small spreading tree with irregular shape. Fragrant flowers at night. Helps in fighting pollution.
16	Murraya koengii	Kadipatta	10	Small evergreen tree, almost like a tall shrub. Fragrant leaves
17	Plumeria alba	Temple tree	5	Small Multi-branching deciduous tree with big white fragrant flowers
18	Bauhenia purpurea	Kanchan	10	Small height deciduous tree with butterfly shaped purple flowers.
19	Syzygium jambos	Jamun	10	Medium-Large tree with low branching, cultivated for it fruits that attract 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)	33 KW
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	4642.85 KW
	During Operation phase (Demand load):	2265. 35 kVA
	Transformer:	630Kva x 4 Nos
	DG set as Power back-up during operation phase:	600 KVA x 1 no. + 500 KVA x 3nos. + 400 KVA x 2 nos.+200 KVA x 1nos.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Timers and contactors will be used to switch on / off common are & external landscape and facade lighting.
2. LED/T5/CFL fittings will be used for corridors ,Lobbies and common areas.
3. Energy efficient LED/T5/CFL lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs.
4. All cables will be derated to avoid heating during use. This also indirectly reduces losses and improves reliability. To achieve the same we have considered current carrying capacity of all the cables laid through ground/air whichever is minimum.
5. 25 Ltrs Solar water is provided for each flat .
6. Solar PV panel system is proposed for Street lighting & Building common load.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar water heater	16 %
2	Common Lighting (LED/T5/CFL)	53 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water	STP	NA
Noise due to DG set	Acoustic enclouser	Acoustic enclouser
Solid waste management	NA	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	30.08 lakhs/-
	O & M cost:	2.00 lakhs pa

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Erosion control	Dust suppression measures and barricading	2
2	Site safety	Net, PEE for labours, Sign boards	3
3	Site sanitation	Mobile toilets and solid waste management	1.5
4	Disinfection and health check up	medical camp	2.0
5	Environmental monitoring	Air, noise monitoring and water and soil analysis	1

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	MBBR technology (2), construction and electrical, manpower cost	87.25	28.8
2	Rain water harvesting	pits with bore and internal piping	12	0.35

3	Storm water networking	Piping upto final disposal	30	3.0
4	Solid waste managemement	Machine	41.00	1.80
5	Landscape	tree plantation	30.91	1.55
6	Energy	Solar water heater, PV cell and LED/T5/CFL	30.08	2.00
7	Environmental monitoring	Air, noisemonitoring and water soil analysis	0	1.6
8	Safety and training	Fire fighting training	9	0
9	Water supply in case of shortage of water	Water tanker	0	15

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	1 Basement 7921 sqm
	Number and area of podia:	2 Podium area (10644+7921)
	Total Parking area:	26486
	Area per car:	35 and 30
	Area per car:	35 and 30
	Number of 2-Wheelers as approved by competent authority:	1196
	Number of 4-Wheelers as approved by competent authority:	788
	Public Transport:	NA
	Width of all Internal roads (m):	6 m

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	22-12-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for modernization of earlier Environmental clearance for total plot area of 39000.00 Sq. Mtrs, BUA of 96458 Sq. Mtrs and FSI area of 46845.24 Sq. Mtrs. PP proposes to construct 7 no. of 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

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 affidavit regarding withdrawal of the application made under SEIAA Statement number - -0000000371.
2) PP to submit a statement regarding RG area of individual plot 6) PP to submit fire tender movement plan.PP to submit JV documents of viva & Ganga plantino.
3) PP to submit cross section of roads at four places including UGT, OWC and DG set location showing clear road width 6 meter, 1.5 meter distance left from building line & spaces left for plantation, parking, service lines, foot paths, etc. PP to submit JV documents of viva & Ganga plantino.
4) PP to submit additional cross section near STP adjacent to driveway.PP to submit JV documents of viva & Ganga plantino.
5) PP to revise parking layout plan by removing dependent parking on ground, mid, and lower levels. Parking removed from the dependent locations shall be relocated and indicated in the drawings.PP to submit JV documents of viva & Ganga plantino.
6) PP to submit revised parking statement as per new layout.
7) PP to submit basement approved plan.PP to submit JV documents of viva & Ganga plantino.
8) 8. PP to obtain and submit following NOC's: a) CFO NOC, b) Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.
9) 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. With details of fund utilization & agreement or consent of executor.

FINAL RECOMMENDATION

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

Agenda for 76th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 76 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Villagio Toscana (EC amendment)

Is a Violation Case: No

1.Name of Project	Villagio Toscana
2.Type of institution	Private
3.Name of Project Proponent	M/s IDEB Grand Reality Pvt. Ltd.
4.Name of Consultant	M/s. Ultra-Tech (Environmental Consultancy & Laboratory)
5.Type of project	Residential Development
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC received No. 21-1122/2007-IA-III dated 19th November 2009
8.Location of the project	S.No. 26/4 Kondhwa Khurd,
9.Taluka	Haveli
10.Village	-
Correspondence Name:	2S3, 1st Floor, Indrayu Mall, near Konark Puram, Kondhwa, Pune – 411048
Room Number:	-
Floor:	1st
Building Name:	Indrayu Mall,
Road/Street Name:	-
Locality:	Kondhwa
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	CC/1935/11
	IOD/IOA/Concession/Plan Approval Number: CC/1935/11
	Approved Built-up Area: 30137.7
13.Note on the initiated work (If applicable)	Work has been initiated as per EC received No. 21-1122/2007-IA-III dated 19th November 2009 Wing A, B,C, D (B+2P+8 floor) have been completed FSI: 20702.90 SQM. No FSI: 9434.80 SQM. Total BUA: 30137.70 SQM..
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	27,255.37 Sq.m.
16.Deductions	7695.28 Sq.m.
17.Net Plot area	19560.09 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 42,123.99
	b) Non FSI area (sq. m.): 30,329.59
	c) Total BUA area (sq. m.): 72453.58
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 20702.90
	Approved Non FSI area (sq. m.): 9434.80
	Date of Approval: 30-07-2011
19.Total ground coverage (m2)	5615.67
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28.71
21.Estimated cost of the project	980000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A (completed)	B+2P+8 FLOOR	30
2	Wing B (completed)	B+2P+8 FLOOR	30
3	Wing C (completed)	B+2P+8 FLOOR	30
4	Wing D (completed)	B+2P+8 FLOOR	30
5	Wing E	2P+17 FLOOR	54.15
6	Wing F	2P+17 FLOOR	54.15
7	Wing G	2P+17 FLOOR	54.15
8	Club House	G+1	-

23.Number of tenants and shops	337
24.Number of expected residents / users	1965 + 28
25.Tenant density per hectare	250 tenements per hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Work has been initiated as per EC received No. 21-1122/2007-IA-III dated 19th November 2009 Wing A, B,C, D (B+2P+8 floor) have been completed
30.Details of the demolition with disposal (If applicable)	Total number of Row houses to be demolished – 11 (G +1 structure – 5 G + 2 structures – 6)

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):	194
	Recycled water - Flushing (CMD):	93
	Recycled water - Gardening (CMD):	33
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	330
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	10
	Excess treated water	89
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	194
	Recycled water - Flushing (CMD):	93
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	297
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	10
	Excess treated water	122
Details of Swimming pool (If any)	AREA -509 SQ.FT 57008 KLD 1025 Filter, Pump, Hair & Lint, Vacuum Point, Vacuum Sweeper, Skimmer etc. Rs.55,00,000/- Rs.2,50,000/- (Annual)	

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	194	194	Not applicable	19	19	Not applicable	175	175
Domestic	Not applicable	93	93	Not applicable	0	0	Not applicable	93	93
Gardening	Not applicable	33	33	Not applicable	33	33	Not applicable	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Below 10 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	10
	Size of recharge pits :	10 No.s of size - 2 m Dia. & 3m Depth
	Budgetary allocation (Capital cost) :	Rs. 10,00,000.00
	Budgetary allocation (O & M cost) :	Rs.1,00,000.00
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 208 Flushing tank Capacity(cum) 127 Fire UG tank Capacity (cum) 300

35.Storm water drainage	**Natural water drainage pattern:**	according to contour
	Quantity of storm water:	412 Cu.m/hr
	Size of SWD:	450 mm

Sewage and Waste water	**Sewage generation in KLD:**	239
	STP technology:	MBBR
	Capacity of STP (CMD):	265
	Location & area of the STP:	Near wing C
	Budgetary allocation (Capital cost):	Rs. 7000000.00
	Budgetary allocation (O & M cost):	Rs. 500000.00

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Top soil - 1129.3 Cum Excavation - 14,104.12 Cum
	Disposal of the construction waste debris:	Backfilling & Road levelling
Waste generation in the operation Phase:	**Dry waste:**	370 Kg/day
	Wet waste:	246 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	13.25 kg/Day
	Others if any:	E waste - 20 Kg/day

Mode of Disposal of waste:	**Dry waste:**	Will be sent to authorised vendor
	Wet waste:	Will be treated in OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	E waste - Will be handed over to authorised vendor
Area requirement:	**Location(s):**	Near Open space 2
	Area for the storage of waste & other material:	20 Sq.m.
	Area for machinery:	20 Sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20,00,000.00
	O & M cost:	1,80,000.00

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	400 kVA	65.6 Kg/hr	1	3	0.15	475

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	2301.18 m2
	No of trees to be cut :	0
	Number of trees to be planted :	289
	List of proposed native trees :	All
	Timeline for completion of plantation :	2 year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ailanthus excelsa	Maharukh	05	Medicinal value, Drought tolerant species.
2	Albizia lebek	Shirish	04	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
3	Anthocephalus kadamba	Kadamb	04	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
4	Azardirachta indica	Neem	15	Medicinal value, To control soil erosion. To improve soil erosion
5	Bauhinia blackiana	Kanchanraj	04	Every part of the plant is medicinal, Drought tolerant species.
6	Bauhinia purpurea	Gulabi kanchan	04	Every part of the plant is medicinal, Drought tolerant species.
7	Butea monosperma	Palas	04	Medicinal value, Bird attracting species , To control soil erosion.
8	Cassia fistula	Bahawa	04	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
9	Choclospermum religiosum	Sonsawar	04	Medicinal value, Native species
10	Cordia dichotoma	Bhokar	04	Medicinal value, Edible fruits,
11	Dalbergia sissoo	Shisav	20	Medicinal value, Bird attracting species ,
12	Ficus arnottiana	Payar	04	Drought tolerant species, Bird attracting species. To control soil erosion.
13	Ficus glomerata	Umber	04	Medicinal value, Edible fruits, Bird attracting species
14	Ficus retusa	Nandruk	04	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.
15	Mangifera indica	Mango	04	Edible fruit, Bird attracting species
16	Michelia champaca	Sonchaffa	04	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.

17	Roystonia regia	Bottle palm	24	Ornamental plant, Medicinal value, Birds & bats eat fruits.
18	Bahunia racemosa	Apta	16	Every part of the plant is medicinal, Drought tolerant species.
19	Caryota urens	Fishtail palm	16	Grown in any type of soil. Very Hardy.
20	Erythrina indica	Pangara	12	Fragrant flowers, Drought tolerant species, Birds attracting
21	Gmelina arborea	Shivan	16	Medicinal value, Drought tolerant species, Bird attracting species.
22	Mimosups elengii	Bakul	14	Fragrant flowers, Medicinal value, To control soil erosion.
23	Murraya exotica	Kamini	16	Native species, Fragrant flowers,
24	Aegle marmelos	Bel	12	Medicinal value, Drought tolerant species,
25	Nyctanthus arbortristis	Parijatak	18	Fragrant flowers, Medicinal value,
26	Putrnjiva roxburghii	Putrnjiva	11	Medicinal value, Drought tolerant species
27	Melia Azaradichta	Bakam neem	20	Medicinal value, Native species Bird attracting species.
28	Schleichera oleosa	Kusum	22	Native species, Fragrant flowers.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KVA
	DG set as Power back-up during construction phase	63.5 KVA
	During Operation phase (Connected load):	2861.61 KW
	During Operation phase (Demand load):	1560.84 KW
	Transformer:	2 no. 1000 KVA
	DG set as Power back-up during operation phase:	1 no. 400 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

solar panel and solar water heater

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	External Lighting (LED Lighting instead of Normal)	10.95
2	Solar Panels	4.11
3	VFD's on Lifts	10.00
4	Plumbing Plantroom pumps	10.00
5	STP	10.00
6	Building(Lift lobby, Staircase)	48.27
7	Water Heater (Considering 1 geyser in each flat on solar)	16.79

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	-	STP
solid waste	-	OWC
DG set	-	DG set

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 40.97 Lacs
	O & M cost:	Rs. 6.56 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	Air	Water For Dust Suppression	1.44
2	Air	Air & Noise Monitoring	0.48
3	Water	Tanker Water For Construction	6.00
4	Water	Water Monitoring	0.60
5	Land	Site Sanitation- Mobile toilets	4.8
6	Biological	Gardening Set Up and top soil preservation	3.3
7	Socio- Economic Environment	Disinfection- Pest Control	0.18
8	Socio- Economic Environment	First Aid Facilities	0.6
9	Socio- Economic Environment	Health Check Up	0.2
10	Socio- Economic Environment	Creches For Children	3
11	Socio- Economic Environment	Personal Protective Equipment	1.2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Sewage Treatment Plant	70.00	5.00
2	Rain Water Harvesting	Rain Water Harvesting	10.0	1.0
3	Solid Waste Management	Solid Waste Management	20.00	1.80
4	Green Belt Development	Green Belt Development	41.50	6.64
5	Energy saving	Energy saving	40.97	6.56
6	Environmental Monitoring	Environmental Monitoring	-	10.51
7	Swimming Pool	-	55.00	2.50

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	1 (3862.93 SQM.)
	Number and area of podia:	1 (2839.23 SQM.)
	Total Parking area:	17880.00
	Area per car:	30.00 SQM.
	Area per car:	30.00 SQM.
	Number of 2-Wheelers as approved by competent authority:	690
	Number of 4-Wheelers as approved by competent authority:	498
	Public Transport:	Local Buses
	Width of all Internal roads (m):	9.00m
	CRZ/ RRZ clearance obtain, if any:	No
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	-
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	RCC No. 404968/2010 Suhas Bhosale V/s IDEB & Ors Spl. C.S. No. 263/2012 IDEB v/s Jasprit Singh Rajpal Spl. C.S. No. 224/2012 Global Systems Investments v/s IDEB Spl. C.S. No. 201038/2013 Samir Khare v/s IDEB & Ors Civil M.A. 699/2016 Kirti Zaveri v/s IDEB & Ors Spl. Dkst 85/2016 Naresh Chhabriya v/s IDEB & Ors Spl. Dkst 86/2016 Renuka Poorswani v/s IDEB & Ors RCC No. 317/2016 State of Maha v/s Harkirat Singh Bedi Spl. Dkst 77/2017 Savita Kulhare v/s IDEB
	Other Relevant Informations	The proposed site admeasuring 27,255.37 sq.mt. which is owned by M/s IDEB Grand Reality Pvt. Ltd.for residential complex on the said conveyed land. Work has been initiated as per EC received No. 21-1122/2007-IA-III dated 19th November 2009 . Now applying for amendment.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP submitted their application for modernization of earlier Environmental clearance for total plot area of 27255.37 m^2, BUA of 72453.53 m^2 and FSI area of 42123.99 m^2. PP proposes to construct 7 no. of 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

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

Specific Conditions by SEAC:

1) PP to submit CFO NOC.
2) PP to submit debris management plan with location of excess debris disposal with NOC from respective owner/authority.
3) PP to submit revised STP design details.

FINAL RECOMMENDATION

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