Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Amendment in EC

Is a Violation Case: No

1.Name of Project	Bramha Suncity
2.Type of institution	TOR
3.Name of Project Proponent	M/s Bramha Corp Ltd.
4.Name of Consultant	Ultra-Tech Environmental Consultancy & Laboratory
5.Type of project	Residential and Commercial Development
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC has been obtained vide letter SEAC-2013/CR-444/TC-II dated 11th August, 2016
8.Location of the project	S. No. 7/1, 7/2, 7/3, 7/4, 7/5, 8/1/1/2 and 3/2 (P) off Nagar Road, Kalyani Nagar, Wadgaon Sheri, Haveli, Pune Maharashtra
9.Taluka	Haveli
10.Village	Wadgaon Sheri
Correspondence Name:	Mrs. Anjali Bendarkar
Room Number:	3
Floor:	-
Building Name:	Queen's Garden, Residency Club
Road/Street Name:	Residency Club
Locality:	camp
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	We have received sanction dated 13.3.2018 CC no.3332/17 for FSI area of 3,36,928.33 m2 and Non-FSI area of 3,01,045.97 m2 Further, we have applied for full potential sanction.
	IOD/IOA/Concession/Plan Approval Number: We have received sanction dated 13.3.2018 CC no.3332/17 for FSI area of 3,36,928.33 m2 and Non-FSI area of 3,01,045.97 m2 Further, we have applied for full potential sanction
	Approved Built-up Area: 637974.30
13.Note on the initiated work (If applicable)	Construction work is ongoing as per the previous EC from SEIAA, Maharashtra vide letter no. SEAC-2013/CR-444/ TC-II dated 11th August 2016 Existing buildings at site A1, A2, C1, C2, C3, CL1, CL2, D1, D2, D3, D4, D5, D6, E1, E2, E3, E4, E5, E6, E7, L1,L2,L3,A3, C4,C5,A4, C6, D7, CL3 Multipurpose hall, Bungalows, Tower1, Tower 2, partly Tower 3 and Tower 4 FSI – 158414.03 m2 Non FSI – 174011.77 m2 Total BUA- 332425.8 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	177900
16.Deductions	9879 m2
17.Net Plot area	168021m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 401493.89 m2
	b) Non FSI area (sq. m.): 407473.39 m2
	c) Total BUA area (sq. m.): 808967.28
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 3,36,928.33 m2
	Approved Non FSI area (sq. m.): 3,01,045.97 m2
	Date of Approval: 13-03-2018
19.Total ground coverage (m2)	91,471.3 sq.m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	54.44

21.Estimated cost of the project	11245700000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A1 (Completed)	P+9	28.9
2	A2 (Completed	P+9	31.79
3	C1 (Completed)	P+9	28.9
4	C2 (Completed)	P+9	28.9
5	C3 (Completed)	P+9	31.79
6	CL1 (Completed)	P+9	28.9
7	D1 (Completed)	P+9	28.9
8	D2 (Completed)	P+9	28.9
9	D3 (Completed)	P+9	28.9
10	D4 (Completed)	P+9	31.79
11	D5 (Completed)	P+9	31.79
12	D6 (Completed)	P+9	31.79
13	E1 (Completed)	P+9	28.9
14	E2 (Completed)	P+9	28.9
15	E3 (Completed)	P+9	28.9
16	E4 (Completed	P+9	28.9
17	E5 (Completed)	P+9	31.79
18	E6 (Completed)	P+9	31.79
19	E7 (Completed)	P+9	31.79
20	L1 (Completed)	P+9	28.9
21	L2 (Completed)	P+9	28.9
22	L3 (Completed)	P+9	28.9
23	A3 (Completed)	P+11	35.90
24	C4 (Completed)	P+11	35.90
25	C5 (Completed)	P+11	35.90
26	A4 (Completed)	P+11	31.79
27	C6 (Completed)	P+11	31.79
28	D7 (Completed)	P+11	31.79
29	CL3 (Completed)	P+11	31.79
30	Multi-purpose Hall (Completed)	G + 1	8.48
31	Bungalows (Completed) - 4 no	G + 2	4.12
32	Tower 1 (completed)	B+G+P+S+18	63.65
33	Tower 2 (completed)	B+G+P+S+18	63.65
34	Tower 3 (Ongoing)	B+G+P+S+18	63.65
35	Tower 4 (Ongoing)	B+G+P+S+18	63.65
36	Tower 3 (Proposed)	B+G+P+S+18	63.65
37	Tower 4 (Proposed)	B+G+P+S+18	63.65
38	Tower 5 (Proposed)	B+G+P+S+20	69.45
39	Tower 6 (Proposed)	B+G+P+S+20	69.45
40	Tower 7 (Proposed)	B+G+P+S+20	69.45

41	Tower 8 (Proposed)	B+G+P+S+22	75.25
42	Tower 9 (wing A and B) (Proposed)	B1+B2+B3+B4+GR+ Upper ground+P2+P3+23	84.2
43	Tower 10 (WINGS A-J) (Proposed)	B1+B2+B3+B4+GR+ Upper ground+P2+P3+23	84.2
44	Structure G1	Ground	4.80
45	Building A	P+8	83.5
46	Building B	3B+stilt+2P+26	83.5
47	CL2 (Completed)	P+9	31.79

23.Number of tenants and shops	3907 flats, 1 sale office and 321 shops and 1403 offices
24.Number of expected residents / users	Residential – 19535 Commercial - 9184
25.Tenant density per hectare	233
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: Yerawada Fire Station 18.0 Km from site. Width of the road from nearest fire station to proposed building 18 mt.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9M
29.Existing structure (s) if any	Construction work for Towers 1 to 8 is ongoing as per the previous EC from SEIAA, Maharashtra vide letter no. SEAC-2013/CR-444/ TC-II dated 11th August 2016 A1, A2, C1, C2, C3, CL1, CL2, D1, D2, D3, D4, D5, D6, E1, E2, E3, E4, E5, E6, E7, L1,L2,L3,A3, C4,C5,A4, C6, D7, CL3 Multipurpose hall, Bungalows, Tower1, Tower 2 Partly Tower 3 and Tower 4 FSI – 158414.03 m2 Non FSI – 174011.77 m2 Total BUA- 332425.8 m2
30.Details of the demolition with disposal (If applicable)	Labour camp - 50 Cum debris will be generated that comprises of mortar and bricks

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):	1942
	Recycled water - Flushing (CMD):	1108
	Recycled water - Gardening (CMD):	210
	Swimming pool make up (Cum):	14
	Total Water Requirement (CMD) :	3274
	Fire fighting - Underground water tank(CMD):	1. Existing (A1 to A4, C1 to C6, CL1 to CL3, D1 to D7, L1 to L3, E1 to E7 and Bungalow) – 500 KLD 2. Tower 1 to Tower 8 -800 KLD 3. Tower 10 – 400 4. Building A & B, Commercial Tower 1 t0 Tower 3 – 100 KLD/each 5. Tower 9A + B – 100 KLD
	Fire fighting - Overhead water tank(CMD):	1. Existing (A1 to A4, C1 to C6, CL1 to CL3, D1 to D7, L1 to L3, E1 to E7 and Bungalow) – 300 KLD 2. Tower 1 to Tower 8 -200 KLD 3. Tower 10– 150 KLD 4. Building A & B, – 50 KLD/each 5. Tower 9A +B– 80 KLD
	Excess treated water	1334
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	1942
	Recycled water - Flushing (CMD):	1108
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	14
	Total Water Requirement (CMD) :	3050
	Fire fighting - Underground water tank(CMD):	1. Existing (A1 to A4, C1 to C6, CL1 to CL3, D1 to D7, L1 to L3, E1 to E7 and Bungalow) – 500 KLD 2. Tower 1 to Tower 8 -800 KLD 3. Tower 10 – 400 4. Building A & B, Commercial Tower 1 t0 Tower 3 – 100 KLD/each 5. Tower 9A + B – 100 KLD
	Fire fighting - Overhead water tank(CMD):	1. Existing (A1 to A4, C1 to C6, CL1 to CL3, D1 to D7, L1 to L3, E1 to E7 and Bungalow) – 300 KLD 2. Tower 1 to Tower 8 -200 KLD 3. Tower 10– 150 KLD 4. Building A & B, – 50 KLD/each 5. Tower 9A +B– 80 KLD
	Excess treated water	1544

Details of Swimming pool (If any)	Dimension of Swimming Pool: Swimming pool 1: Area : 250 m2 Cost: Rs. 55 lakhs O & M: Rs. 5 lakhs/annum Swimming Pool 2 & 3: Main pool volume: 192 cu.m Kids pool volume: 31.46 cu.m SN DESCRIPTION QTY. 1 %%C800mm BOBBIN WOUND SAND FILTER + 1.5" MULTIPORT VALVE + ASTRAL CODE : 00543-0100 AT + 07444 AT 2 2 SPLASH MONOBLOCK 2HP/S.PHASE PUMP FOR FILTRATION (1W+1S) ASTRAL CODE : 36604 3 3 SPLASH MAXIM 3.5HP/S.PHASE PUMP ASTRAL CODE : 41452 2 4 DOSING PUMP 5l/hr + DOSING TANK 100ltrs + MANUAL STIRRER 600mm CODE : 57155 + 01341-I + LPIND04 2 5 TRANSFORMERS 300w/12v ASTRAL CODE : 00384-4146 ATB 7 6 CONTROL PANEL (COMMON):REQUIRED ELECTRICAL LOAD:10kw 1 SN DESCRIPTION QTY. 7 %%C800mm BOBBIN WOUND SAND FILTER + 1.5" MULTIPORT VALVE + ASTRAL CODE : 00543-0100 AT + 07444 AT 1 8 SPLASH MONOBLOCK 2HP/S.PHASE PUMP FOR FILTRATION (1W+1S) ASTRAL CODE : 36604 2 9 DOSING PUMP 5l/hr + DOSING TANK 100ltrs + MANUAL STIRRER 600mm CODE : 57155 + 01341-I + LPIND04 2 10 TRANSFORMERS 300w/12v ASTRAL CODE : 00384-4146 ATB 2 Details of quality to be achieved for swimming pool water and parameters to be monitored: Sr. No Parameters Value range 1 pH 7.2-7.8 2 Total Alkalinity 80-100 mg/lit 3 TDS Less than 1500 mg/lit 4 Hardness Ca 200-400 mg/lit 5 Free Cl 2.0-4.0 mg/lit 6 Residual Chorine 0.5 mg/lit Capital cost: Rs 64.00 Lakhs O & M Cost: Rs. 6.4 Lakhs/annum

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	819	1123	1942	218	181	399	1020	1632	2652
Domestic	419	690	1109	-	-	-	-	-	-
Gardening	163	47	210	163	47	210	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.8 m
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	15 pits
	Size of recharge pits :	2.0 x 3.0 x 2.0 m
	Budgetary allocation (Capital cost) :	Rs.9.0 lakhs
	Budgetary allocation (O & M cost) :	Rs. 1.8 lakhs per annum
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 2940 KLD Flushing tank Capacity(cum) Residential: 822 KLD Commercial : 242 KLD Fire UG tank Capacity (cum) 1900 KLD
35.Storm water drainage	**Natural water drainage pattern:**	North to South and East to West
	Quantity of storm water:	0.47 Cum/sec
	Size of SWD:	Internal 300 mm SWD
Sewage and Waste water	**Sewage generation in KLD:**	2652
	STP technology:	MBBR
	Capacity of STP (CMD):	1. 770 KLD - Existing (A1 to A4, C1 to C6, CL1 to CL3, D1 to D7, L1 to L3, E1 to E7 and Bungalow) 2. 640 KLD - Tower 1 to Tower 8, Commercial, 3. 830 KLD - Tower 10 4. 330 KLD - Building A & B 5. 320 KLD - Tower 9A+B
	Location & area of the STP:	1. 770 KLD – 500 2. 640 KLD - 420 3. 830 KLD- 520 4. 330 KLD - 160 5. 320 KLD - 150
	Budgetary allocation (Capital cost):	Rs.146lakhs
	Budgetary allocation (O & M cost):	Rs.26 lakhs per year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	200 Kg/day
	Disposal of the construction waste debris:	Authorized vendor
Waste generation in the operation Phase:	**Dry waste:**	4337 kg/day
	Wet waste:	6027 Kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	80 Kg/day
	Others if any:	E waste Negligible

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler
	Wet waste:	Treated on OWC and used as manure (4 OWC)
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Used as manure for landscaping
	Others if any:	E waste - will be handed over to Authorized vendor
Area requirement:	**Location(s):**	Existing OWC: near 770 KLD STP Near Tower 9A
	Area for the storage of waste & other material:	370 + 270
	Area for machinery:	62 + considered in above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 64.8 + 24.6 Lacs
	O & M cost:	Rs. 15.32 + 4.7 Lacs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	125 kVA	20.2	3	4.3	0.1016	450 degree celsius
2	160 kVA	27.7	3	4.22	0.1016	450 degree celsius
3	250 kVA	42.6	2	4.28	0.1524	450 degree celsius
4	500 kVA	81.9	3	4.9	0.254	450 degree celsius
5	320 kVA	52.5	4	4.8	0.1524	450 degree celsius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total

1	HSD	HSD	HSD	HSD
41.Source of Fuel		Authorized Dealer		
42.Mode of Transportation of fuel to site		Via Road		

43.Green Belt Development	**Total RG area :**	16,802 Sq. mt
	No of trees to be cut :	0
	Number of trees to be planted :	577 +1764
	List of proposed native trees :	Given in the list below
	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	Peltophorum pterocarpum	Copperpod	22	Deciduous with red flowering
2	Delonix regia	Gulmohar	32	Evergreen tree
3	Draperies roxburghii	Putranjivi	46	Deciduous with pink flowering
4	Tabebuiarosea	Tabebuia	12	Fragrance flowering
5	Samaneasaman	RainTree	10	Small tree with small white flowers
6	Pongamiapinnata	Karanj	22	Medium sized evergreen tree, fragrance yellow flower
7	Kigeliaafricana	Sausage tree	15	tall evergreen palm tree
8	Cassia grandis	Pink Cassias	20	tall evergreen palm tree
9	Millingtoniahortensis	Indian Cork tree	33	Evergreen tree
10	Anthocephalluscadamba	Kadam tree	15	Evergreen tree
11	Bauhinia racemosa	Kanchan	12	Deciduous with pink flowering
12	Micheliachampaca	Son champa	46	Deciduous with pink, white flowering with fragrance
13	Grevillearobusts	Silver Oak	12	Deciduous tree
14	Azadiractaindica	Neem	27	Mainly grown as a fruit crop
15	Cassia fistula	Bahawa	12	Fruit bearing deciduous tree
16	Mimusopselengi	Maulsari	12	Evergreen tree
17	Nyctanthes arbor-tristis	Harsingar	61	Evergreen fruit bearing tree
18	Lagerstroemia flosregineae	Jarul	40	Deciduous tree
19	Caryotaurens	fishtail palm	128	Evergreen 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	Bougainvillea	450 c/c	456
2	Caesalpinia	600 c/c	541
3	Jatropha	300 c/c	535

4	Tecoma gaudichaudi	600 c/c	620
5	Mussaendra	300c/c	260
6	Murraya exotica	450 c/c	512
7	Hamelia patens	300 c/c	816

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	200 kW
	DG set as Power back-up during construction phase	180kVA
	During Operation phase (Connected load):	37860 kW
	During Operation phase (Demand load):	23985 kW
	Transformer:	Existing: 13 no. of 630 kVA Proposed: 7 no. of 630 kVA 12 no. of 999 kVA 1 no. of 315 kVA
	DG set as Power back-up during operation phase:	Existing 250 KVA – 2no. 160 KVA – 3 No. 125 KVA – 1 no., 500 KVA – 2 no. Proposed: 320 kVA- 4 no. 125 kVA- 2 no. 500 kVA- 1no.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Solar PV Panels : 324000 KWH / Anum
Timer Logic Controller : 744217 KWH / Anum
Electronic V3F drive for Lifts : 26249 KWH / Anum
Solar Water Heater : 3509232 KWH / Anum

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels : 324000 KWH / Anum	0.53
2	Timer Logic Controller : 744217 KWH / Anum	1.22
3	Electronic V3F drive for Lifts : 26249 KWH / Anum	0.04
4	Solar Water Heater : 3509232 KWH / Anum	5.76

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DOMESTIC SEWAGE	STP 1 no. 770 KLD, 1 no. of 600 KLD	3 STP
EMIISION	250 KVA – 2no. 160 KVA – 3 No. 125 KVA – 1 no., 500 KVA – 2 no.	320 kVA- 4 no. 125 kVA- 2no. 500 kVA- 1no.
MSW	1 composting machine	3 OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 339.12 Lacs
	O & M cost:	Rs. 6.65 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 and Noise	Water For Dust Suppression Air & Noise Monitoring	2.64
2	Water	for construction + monitoring	6.6
3	Land	Site Sanitation- Mobile toilets	4.8
4	Biological	Gardening Set Up and top soil preservation	12
5	Socio- Economic Environment	Site Sanitation	4.3

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	STP	146	269
2	Rain Water Harvesting	RWH PITS	9	1.8
3	Solid Waste Management	OWC	Rs. 64.8 + 24.6 Lacs	Rs. 15.32 + 4.7 Lacs/annum
4	Green Belt Development	Landscaping	93.41	0.5
5	Energy Use (Solar panel) Energy Use (Solar water heating)	energy saving	339.12	6.65
6	Swimming Pool	swimming pool	55 + 64	5 + 6.4
7	Environmental Monitoring	MoEFCC approved laboratory	MoEFCC approved laboratory	27.94

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:	Project is abutting to 18m road and junction known as Shivaji Chowk at North side, 24 m wide road at north side
Parking details:	**Number and area of basement:**	4 no. 95524.24 m2
	Number and area of podia:	5 no. 173818.05 m2
	Total Parking area:	182843.25 m2 (existing+proposed)
	Area per car:	Basement: 37.2 m2 Stilt/Podiun: 31.98 m2
	Area per car:	Basement: 37.2 m2 Stilt/Podiun: 31.98 m2
	Number of 2-Wheelers as approved by competent authority:	SCOOTER = 9562 NOS. CYCLE = 5655 NOS.
	Number of 4-Wheelers as approved by competent authority:	5344 NOS.
	Public Transport:	Local conveyance available
	Width of all Internal roads (m):	6 m driveway
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 b (B1)
	Court cases pending if any	No
	Other Relevant Informations	1) EC received from SEIAA, Maharashtra vide Letter No. SEAC-2013/CR-444/ TC- II dated 11th August 2016 2) Application to EAC (Infra-2) dated 04.04.2017 (Proposal Number Proposal No. IA/MH/NCP/63708/2017, File No. 21-164/2017-IA-III dated 13.06.2017 and ToR Amendment application for the same dated 26.02.2018 3) Transfer of project by MoEF & CC to State Portal of Maharashtra as per O.M. dt. 03.04.2018 by MoEF & CC
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	26-02-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Amendment in EC Bramha Suncity at S. No. 7/1, 7/2, 7/3, 7/4, 7/5, 8/1/1/2 and 3/2 (P) off Nagar Road, Kalyani Nagar, Wadgaon Sheri,Haveli, Pune by M/s Bramha Corp Ltd.

PP submitted their application for amendment in earlier Environmental clearance for total plot area of 177900 Sq. Mtrs, BUA of 808967.28 Sq. Mtrs and FSI area of 401493.89 Sq. Mtrs.

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 above observations and submit information to the committee for further discussion and consideration of SEAC.

Specific Conditions by SEAC:

1) PP to submit HRC NOC.
2) PP to explore the possibility to provide pre-primary school.
3) PP to submit runoff calculations compare with old data and RWH details.
4) PP to submit revised EMP.
5) PP to submit revised tree list with an undertaking for survival rate of plantation.
6) PP to submit debris management plan with excess earth disposal details.
7) PP to submit environmental status report considering monitoring data.
8) PP to provide worker toilets for labour colony.
9) PP to submit energy saving calculation along with terrace area calculations.
10) 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.
11) PP to submit details for E-Waste quantity and NOC for the same.
12) PP to submit CFO NOC.
13) PP to submit an indemnity bond for project land.
14) PP to submit water supply NOC.

FINAL RECOMMENDATION

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

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Expansion of Residential Development at Baner, Pune

Is a Violation Case: No

1.Name of Project	Residential Development
2.Type of institution	Private
3.Name of Project Proponent	M/s. Neo Pharma Pvt. Ltd.
4.Name of Consultant	M/s. Ultra-Tech (Environmental Consultancy & Laboratory)
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environment Clearance obtained vide No. SEAC-2012/CR-110/TC-2 dated 29/09/2014
8.Location of the project	Survey No. 12 (P) at Village Baner, Taluka - Haveli, Dist. - Pune, State -Maharashtra.
9.Taluka	Haveli
10.Village	Baner
Correspondence Name:	M/s. Neo Pharma Pvt. Ltd.
Room Number:	603
Floor:	6th Floor
Building Name:	Mayfair Tower I
Road/Street Name:	Old Mumbai – Pune Road
Locality:	Wakadewadi, Shivajinagar
City:	Pune
11.Area of the project	Pune Municipal Corporation (P.M.C.)
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate No. CC/3004/17
	IOD/IOA/Concession/Plan Approval Number: Commencement Certificate No. CC/3004/17
	Approved Built-up Area: 122935.78
13.Note on the initiated work (If applicable)	Construction initiated on site after receipt of Environmental Clearance vide letter SEAC 2012/CR-110/TC-2 dated 29/09/2014 . Construction work completed on site as on date is 1, 18,922.84 Sq. mt.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	65,234.00 Sq. mt.
16.Deductions	16,536.73 Sq. mt.
17.Net Plot area	48,697.27 Sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1, 19,135.01 Sq. mt.
	b) Non FSI area (sq. m.): 1, 84,737.91 Sq. mt.
	c) Total BUA area (sq. m.): 303872.92
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 49,840.42 Sq. mt.
	Approved Non FSI area (sq. m.): 73,095.36 Sq. mt.
	Date of Approval: 12-02-2018
19.Total ground coverage (m2)	14,065.82 Sq. mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29 %
21.Estimated cost of the project	6249000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Phase I	--	--
2	Building A	2 Parking level + Podium + 21 floors	75.65
3	Building B	3 Parking level + Podium + 21 floors	75.43
4	Building C	5 Parking level + Podium + 20 floors	75.75
5	Building D	3 Parking level + Podium + 20 floors	74.29
6	Building E	3 Parking level + Podium + 20 floors	74.29
7	Building F	5 Parking level + Podium + 20 floors	75.77
8	Building G	3 Parking level + Podium + 21 floors	75.43
9	Building H	2 Parking level + Podium + 21 floors	75.65
10	Building I: Multipurpose Court	Ground	--
11	Phase II	--	--
12	Building B	2 Basements + 1 Parking level + 5 floors	19.55
13	Aurum	3 Basement + 5 Parking level + 21 floors	75.00

23.Number of tenants and shops	Phase 1 - Flats: 590 Nos. Phase 2 - Flats: 750 (Sale flats: 610 Nos. + Flats to be handed over to PMC: 140 Nos.) Total Flats: 1340 Nos.
24.Number of expected residents / users	6955 nos.
25.Tenant density per hectare	276/hectors
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	It is connected by 24.0 mt. wide D.P. Road and 18.0 mt. wide D.P. Road to major arterial roads of the area
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	Project is under construction as per previous EC
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC/ Tanker water for Swimming pool make up
	Fresh water (CMD):	623
	Recycled water - Flushing (CMD):	312 KLD
	Recycled water - Gardening (CMD):	66 KLD
	Swimming pool make up (Cum):	7
	Total Water Requirement (CMD) :	1008 KLD
	Fire fighting - Underground water tank(CMD):	1025 KL
	Fire fighting - Overhead water tank(CMD):	280 KL
	Excess treated water	352 KLD
Wet season:	**Source of water**	PMC/ Tanker water for Swimming pool make up
	Fresh water (CMD):	623
	Recycled water - Flushing (CMD):	312 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	7
	Total Water Requirement (CMD) :	942 KLD
	Fire fighting - Underground water tank(CMD):	1025 KL
	Fire fighting - Overhead water tank(CMD):	280 KL
	Excess treated water	418 KLD
Details of Swimming pool (If any)	Dimension of Swimming Pool: – •Lap pool – 40 m. x 4.5 m. x 1.2 m. (water depth) •Main Pool – 19.38 m. x 8.6 m. x 1.2 m. (water depth) •Kids pool – 3.8 m. x 3.8 m. x 0.6 m. (water depth) Total water Requirement: 425 Cum Water requirement for make-up: 7 m3/day Budgetary allocation (Capital cost and O & M cost) Capital Cost: Rs. 174.00 Lacs O & M Cost: Rs. 17.40 Lacs/annum	

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	NA	623	623	NA	125	125	NA	498	498
Domestic	NA	312	312	NA	NA	NA	NA	312	312
Gardening	NA	66	66	N A	66	66	NA	NA	NA

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 13.00 m. to 19.40 m. BGL. (16.20 BGL Average) ; Rainy Season – 5.80 m. to 8.80 BGL. (7.30 BGL Average) ; Winter Season – 9.40 m. to 14.10 m. BGL. (11.75 BGL Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	14 Nos. of Rain Water Harvesting Pits
	Size of recharge pits :	2m x 2m x 2m
	Budgetary allocation (Capital cost) :	Rs.17.50 Lacs
	Budgetary allocation (O & M cost) :	Rs.1.00 Lac/annum
	Details of UGT tanks if any :	Phase I: Domestic: 819563 Lit/day Flushing: 411638 Lit/day Fire: 800000 Lit/day Phase II: Domestic: 438750 Lit/day Flushing: 219375 Lit/day Fire: 225000 Lit/day
35.Storm water drainage	**Natural water drainage pattern:**	The site is sloping from South East to North West
	Quantity of storm water:	1.45 m3/sec
	Size of SWD:	10.0 mt. width X 1.20 mt. Depth with Slope 1:300
Sewage and Waste water	**Sewage generation in KLD:**	Phase I: 426 KLD; Phase II: 385 KLD And Total: 811 KLD
	STP technology:	RMBR (Rotating Media Bio Disk Reactor)
	Capacity of STP (CMD):	Phase I: 500 KL (1 No.) And Phase II: 450 KL (1 No.)
	Location & area of the STP:	Undergound
	Budgetary allocation (Capital cost):	Rs. 300 Lacs
	Budgetary allocation (O & M cost):	Rs. 25 Lacs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation material (58249 Cum) has already been reused on site for backfilling and leveling, remaining excavation material (63037 Cum) shall be reused on site for backfilling and leveling
	Disposal of the construction waste debris:	Use of Construction waste (Brick, blocks, ceramic tiles, marbles etc) for waterproofing work, paving & landscaping areas
Waste generation in the operation Phase:	**Dry waste:**	2077 kg/day
	Wet waste:	1384 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	122 kg/day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Through SWACH agency
	Wet waste:	SMART Organic Waste Composting system
	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):**	Ground Level
	Area for the storage of waste & other material:	131 Sq. mt.
	Area for machinery:	24 Sq. mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 56.50 Lacs
	O & M cost:	Rs. 12.33 Lacs/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set	For 630 kVA X 2 Nos.: 262.0 litre/Hour @ 100% Loading, For 82.5 kVA: 19.5 litre/Hour @ 100% Loading and For 160 kVA: 36.9 litre/Hour @ 100% Loading	3 nos.	For 630 kVA: 8 mt. ; For 82.5 kVA and 160 kVA: 5 mt.	150 mm and 100 mm	438 Degree Celsius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	For 630 KVA X 2 Nos.: 262.0 litre/Hour @ 100% Loading, for 82.5 KVA: 19.5 litre/Hour @ 100% Loading and for 160 KVA: 36.9 litre/Hour @ 100% Loading	318.4 litre/ Hour
41.Source of Fuel		Nearby pump		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	6065.25 Sq. mt. ; Additional green cover area on podium: 4897.00 Sq. mt.
	No of trees to be cut :	58 Nos. (54 Nos. of trees has been cut and 4 nos. shall be cut)
	Number of trees to be planted :	Already planted: 107 Nos. To be planted: 394 Nos.
	List of proposed native trees :	As given below in
	Timeline for completion of plantation :	At the time of completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Anthocephalus cadamba	Kadamba	27	Medicinal value. To control soil erosion, Birds, squirrels, monkey eat fruits
2	Azadirachta indica	Neem	31	Medicinal value. To control soil erosion. To improve soil erosion
3	Bauhinia purpurea	Apta / Kanchanar	31	Every part of the plant is medicinal, Drought tolerant species.

4	Cassia fistula	Bahava	36	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
5	Delonix regia	Gulmohar	26	Attracts bees and butterflies
6	Lagerstroemia flos regia	Pride of India	32	Native, attracts butterflies and bees
7	Millingtonia hortensis	Indian cork tree	27	Evergreen, bird attracting tree
8	Putranjiva roxburgii	Putranjiva	30	Evergreen, Ornamental, medicinal
9	Thispesia populaena	Bhend	33	Flowering plant, Timber
10	Mimusops elengi	Bakul	29	Flowering tree
11	Terminalia catappa	Badam	28	Medicinal, Attracts birds and Butterflies, fast growing
12	Butea monosperma	Palas	24	Medicinal value, Bird attracting species, control soil erosion.
13	Michelia champaca	Son chafa	28	Medicinal value, Fragrant flowers, Butterfly larvae host plant.
14	Bombax ceiba	Kate sawar	25	Attract butterflies and bees
15	Morus alba/indica	Mulberry	30	Fruit bearing, Ornamental, Timber
16	Emblica officinalis	Amla	34	Medicinal value, Bird attracting species
17	Plumeria alba	Chafa	30	Medicinal value, Ornamental
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Allamanda cathartica	0.3 mt.	128
2	Bougainvillea spectabilis	0.6 mt.	187
3	Plumbago capensis	0.45 mt.	164
4	Tabernaemontana cornonaria	0.45 mt.	155
5	Tecoma gaudichaudi	0.6 mt.	174
6	Murraya paniculata	0.6 mt.	121
7	Galphimia glauca	0.45 mt.	124
8	Gardenia jasminoides	0.45 mt.	67
9	Hamelia patens	0.45 mt.	112
10	Heliconia psittacorum	0.45 mt.	84
11	Ixora chinensis	0.45 mt.	141
12	Nerium oleander	0.6 mt.	166
13	Rhapis excelsa	0.6 mt.	111
14	Schefflera arboricola	0.6 mt.	176
15	Alpinia purpurata	0.6 mt.	75

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	77 KW
	DG set as Power back-up during construction phase	2 Nos. of 125 kVA each
	During Operation phase (Connected load):	Phase I: 6423 KW And Phase II: 3204 KW
	During Operation phase (Demand load):	Phase I: 2753 KW And Phase II: 2136 KW
	Transformer:	Phase I: 630 kVA X 5 Nos. and 315 kVA X 1 No. Phase II: 630 kVA X 5 Nos.
	DG set as Power back-up during operation phase:	Phase I: 630 kVA X 2 Nos. Phase II: 160 kVA X 1 No. & 82.5 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:

Provision of Solar system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving using Conventional T5 FTL fixture with Electronic Ballast Vs Conventional T8 FTL with Magnetic Ballasts:	18 %
2	Energy Saving using Automatic Timer operation Against Manual operation for External & Common Area Lighting	9.09%
3	Energy Saving using Solar Water Heater Against Electrical water Heater	67.12%
4	Conventional CFL fixture with Electronic Ballast Vs Energy efficient LED fixtures for flat internal point	14.29%
5	Energy saving due to Ventilation system	75%
6	Energy efficient distribution transformer	5.5%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution by DG sets	--	Acoustic enclosure for DG set
Sewage generated	--	STP
Biodegradable Solid Waste	--	Organic Waste Converter

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 68.87 Lacs (Solar system)
	O & M cost:	Rs. 1.80 Lacs/annum (Solar system)

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	7.20
2	Air Environment	Air and Noise Monitoring: Sensors for Air and Noise level monitoring	12.50
3	Air Environment	By outside MoEF & CC Approved Laboratory	3.30
4	Air Environment	EMP for Batching plant	1.07
5	Water Environment	Drinking water analysis	0.15
6	Land Environment	Site Sanitation & Safety	5.00
7	Socio Economic Environment	Disinfection- Pest Control	6.00
8	Socio Economic Environment	First Aid Facility	0.12
9	Socio Economic Environment	Health Check up	36.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Gardening	Landscape development	60.29	1.20
2	Water Environment: Waste water treatment	Cost for Sewage Treatment Plants + On site sensors	336.0	27.00
3	Water Environment: Rain Water Harvesting	14 Nos. of recharging pits	17.50	1.00
4	Water Environment: Swimming Pool	--	174.00	17.40
5	Land Environment: Organic Waste Composting	Biodegradable solid waste treatment	56.50	12.33
6	Energy Conservation	Solar Hot Water & Solar PV panels for proposed building	68.87	1.80
7	Environmental Monitoring	Ambient Air quality, Noise monitoring, DG Stack Exhaust, waste water, Manure etc.	No set up cost is involved	1.26

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Plot is abutting to 24 mt. wide road to the North side and 18 mt. wide road to the South side
Parking details:	**Number and area of basement:**	Aurum: 3 Basements; Building B (Phase 2): 2 Basements - Total basement area: 10,800 Sq. mt.
	Number and area of podia:	Podium level ranges from 1 to 6 per building - Total podium area is 67,220.29 Sq. mt.
	Total Parking area:	86,273.19 Sq. mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	Phase I: 1248 Nos. And Phase II: 1579 Nos.
	Number of 4-Wheelers as approved by competent authority:	Phase I: 1343 Nos. And Phase II: 644 Nos.
	Public Transport:	Nearest bus stop: Baner
	Width of all Internal roads (m):	12 mt. and 9 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 (b) B1
	Court cases pending if any	NA
	Other Relevant Informations	HRC permission obtained on 07/01/2017

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	21-03-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Expansion of Residential Development at Survey No. 12 (P) Village Baner, Taluka - Haveli, Dist. - Pune, by M/s.Neo Pharma Pvt. Ltd.

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 65234.00 Sq. Mtrs, BUA of 303872.92 Sq. Mtrs and FSI area of 119135.01 Sq. Mtrs.

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 above observations and submit information to the committee for further discussion and consideration of SEAC.

Specific Conditions by SEAC:

1) PP to submit a copy of master layout (old &new).
2) PP to submit phase wise programme considering wind direction at site and mitigation plan to avoid inconvenience to residence.
3) PP to provide mobile toilets /STP during construction phase.
4) PP to submit debris management plan with excess earth disposal details and NOC.
5) PP to submit details of plantation with an undertaking / self-generated report for survival rate of plantation.
6) PP to submit approved basement plan.
7) PP to submit environmental status report.
8) PP to submit revised DMP with lightning arrester plan.
9) PP to submit revised parking layout plan for all floor for new building showing ramp width and slop.
10) PP to submit revised parking statement as per DCR.
11) PP to submit basement ventilation plan for all 3 basement.
12) 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.
13) PP to submit energy saving calculation along with terrace area calculations.
14) PP to submit details for E-Waste quantity and NOC for the same.
15) PP to submit CFO NOC.
16) PP to submit an indemnity bond for project land.
17) PP to submit water supply NOC.
18) PP to submit new approved plan and confirm, if swimming tank and UGT are approved one above other.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Proposed Residential & Commercial Development "V -UPTOWN"

Is a Violation Case: No

1.Name of Project	M/s. Tatvam Constructions Pvt. Ltd
2.Type of institution	Private
3.Name of Project Proponent	Mr Dipak Shah
4.Name of Consultant	Ultratech environment consultancy and Lab
5.Type of project	Housing
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	We have initiated the construction for club house as per sanction & Environmental clearance letter received dated SEAC- III-2014/Cr-367/TC-3 for following proposal:
8.Location of the project	Sr. No. 93/5 and 93/6 Village- Kiwale, Tal- Haveli, Dist- Pune, State- Maharashtra
9.Taluka	Haveli
10.Village	Kiwale
Correspondence Name:	S.No.93/5, 93/6, Kiwale Wasti, Near Sameer Lawns, Mumbai-Pune Bypass, Pune - 412101
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	iwale Wasti, Near Sameer Lawns
Locality:	Kiwale
City:	Pune
11.Area of the project	Pimpri Chinchwad Municipal Corporation.(PCMC)
12.IOD/IOA/Concession/Plan Approval Number	BP/Kiwale/34/2018 date 6/4/2018
	IOD/IOA/Concession/Plan Approval Number: BP/Kiwale/34/2018 date 6/4/2018
	Approved Built-up Area: 20829
13.Note on the initiated work (If applicable)	We have initiated the construction for Bunglow A & Wing B as per sanction & Environmental clearance letter received dated SEAC- III-2014/Cr-367/TC-3 for following proposal:
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	16,600.0
16.Deductions	298.29 Sqm
17.Net Plot area	16301.71 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 26,673.427 Sqm
	b) Non FSI area (sq. m.): 37,014.291 Sqm.
	c) Total BUA area (sq. m.): 63688
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 20,829
	Approved Non FSI area (sq. m.): 33606.161
	Date of Approval: 06-04-2018
19.Total ground coverage (m2)	2578.62
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	15.81%
21.Estimated cost of the project	9000000

22.Number of buildings & its configuration

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

1	A - Type	GP+P1+P2+16 floor	57
2	B - Type	GP+P1+P2+16 floor	57
3	C - Type	GP+P1+P2+16 floor	57
4	D - Type	GP+P1+P2+16 floor	57
5	E - Type	GP+16 floor	51.65
6	MHADA + Commercial	Commercial (G+1stfloor Part) Mhada (P+ 12 floor)	7.25 AND 39.65
7	Bungalow A	G+ 1st floor	6.60
8	Bungalow B	G+ 1st floor	6.60
9	Club House	G+ 1st floor	6.60

23.Number of tenants and shops	No. of Tenements: 599 Shops: 10
24.Number of expected residents / users	Residential: 2995 No. Floating: 77 No.
25.Tenant density per hectare	228 Tenant / hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Pradhikaran Nigdi Fire Station 5Km. Width of the road from the nearest fire station to the proposed building 18mt
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9 m.
29.Existing structure (s) if any	We have initiated the construction for Bunglow A & Wing B as per sanction & Environmental clearance letter received dated SEAC- III-2014/Cr-367/TC-3 for following proposal: .
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	271
	Recycled water - Flushing (CMD):	140
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	423
	Fire fighting - Underground water tank(CMD):	600
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	220
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	271
	Recycled water - Flushing (CMD):	140
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	413
	Fire fighting - Underground water tank(CMD):	600
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	230
Details of Swimming pool (If any)	A dimension of Swimming Pool: 10.10 m X 5.70 m X 1.35m Total water Requirement in m3 : 78 m3 Water requirement for makeup in m3 : 2	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	0	271	271	0	27.1	27.1	0	244	244
Domestic	0	140	140	0	14	14	0	126	126
Gardening	0	10	10	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15m to 20m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	12Nos.
	Size of recharge pits :	2mX1mX2m
	Budgetary allocation (Capital cost) :	12.0Lacs
	Budgetary allocation (O & M cost) :	0.50Lacs/annum
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	North to South
	Quantity of storm water:	17.93 m3/day
	Size of SWD:	200-250 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	370
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. 390 KL
	Location & area of the STP:	185 m2
	Budgetary allocation (Capital cost):	70 Lacs
	Budgetary allocation (O & M cost):	20 Lacs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	37 Kg/day
	Disposal of the construction waste debris:	Quantity of the top soil to be preserved: 7761 m3
Waste generation in the operation Phase:	**Dry waste:**	611 Kg/day
	Wet waste:	907 Kg/day
	Hazardous waste:	nil
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	25 Kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	611 Kg/day
	Wet waste:	907 Kg/day
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure
	Others if any:	NA
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	10 Sq. m.
	Area for machinery:	37 Sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18 Lacs
	O & M cost:	10 Lacs /annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Spent Oil	5.1	Lit/ annum	-	-	-	Will be handed over to MPCB authorized vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	365kVA	HSD 61.5 lit/hr	1 No.	3.5Mtr above habitable space	0.15 m	475oC
2	40 kVA	HSD 7.45 lit/hr	1 No.	1.5Mtr above habitable space	0.07 m	408oC

3	20 kVA	HSD 3.9 lit/hr	1 No.	1.5Mtr above habitable space	0.06 m	4460C

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	1636.99Sqm
	No of trees to be cut :	0
	Number of trees to be planted :	215
	List of proposed native trees :	205 +10
	Timeline for completion of plantation :	Part plantation is completed and remaining will be done at completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Manikara zapota	Chikoo	20	Tropical fruit tree & bird attracting tree
2	Michelia champaca	Champa	8	Evergreen timber plant, ornamental,
3	Mimusopes elengi	Bakul	37	Evergreen tree, timber yielding and medicinal plant
4	Ficus benjamina	Weeping fig	20	Evergreen & bird attracting tree
5	Cassia fistula	Golden shower	18	Drought tolerant, ornamental & medicinal plant
6	Butea monosperma	Flame tree	5	Used in pesticide & dye preparation,
7	Cassia grandis	Pink shower	15	Drought tolerant, ornamental & medicinal plant
8	Saraca indica	Sita ashok	15	Evergreen medicinal plant
9	Roystonea regia	Royal palm	20	Nitrogen fixer, ornamental plant
10	Syzygium cumini	Jambhul	12	fruit tree & bird attracting
11	Neolamarkia cadamba	Kadamba tree	10	Tropical fruit tree & bird attracting tree
12	Mangifera indica	Mango tree	25	Evergreen & bird attracting tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	22 KW
	DG set as Power back-up during construction phase	30kVA
	During Operation phase (Connected load):	2386 KW
	During Operation phase (Demand load):	1391 KVA
	Transformer:	2 No. 630 KVA and 1 No. 315 KVA
	DG set as Power back-up during operation phase:	3 DG sets: 365 KVA,40KVA, 20KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Timers and contactors will be used to switch on / off common are & external landscape and facade lighting.
2. Light Emitting Diode (LED) will be used for corridors ,Lobbies and common areas.
3. All fluorescent light fixtures are specified to incorporate electronic chokes which have less watt-loss compared to electro-magnetic chokes and result in superior operating power factor. This indirectly saves energy. Electronic chokes also improves life of the fluorescent lamps.
4. Energy efficient cfl/t5/led lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs.
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.
6. 125 Ltrs Solar water is provided for each flat .
7. Solar PV Panels are proposed for street lighting & building common load.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	1. Timers and contactors will be used to switch on / off common are & external landscape and facade lighting. 2. Light Emitting Diode (LED) will be used for corridors ,Lobbies and common areas. 3. All fluorescent light fixtures are specified to incorporate electronic chokes which have less watt-loss compared to electro-magnetic chokes and result in superior operating power factor. This indirectly saves energy. Electronic chokes also improves life of the fluorescent lamps. 4. Energy	58% (BY LIGHT FITTING & TIMER SAVINGS)

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
sewage	Not applicable	STP
Emmision	Not applicable	DG SETS WITH STACK

MSW	Not applicable	OWC
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	100lacs
	O & M cost:	10lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water For Dust Suppression Air & Noise monitoring	1.2
2	Water Environment	Tanker water for construction Water monitoring	1.32
3	Land Environment	Site Sanitation	5.4
4	Biological Environment	Gardening	1.7
5	Socio- Economic Environment	Disinfection- Pest Control First Aid Facilities Health Check Up Creche for children Personal protective equipment	6.45

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	Waste water treatment	70	20
2	Rain Water Harvesting	PITS	12	0.50
3	Environmental Monitoring	Ambient Air quality, Noise level, Exhaust from DG set, drinking water, sewage from STP as per EP Act, Manure	MoEF CC approved laboratory	18.14
4	Gardening	Landscape Development	24.60	1.89
5	Solid Waste	Biodegradable solid waste treatment	18	10
6	Electrical	Energy saving measures	100	10
7	Electrical	Energy saving measures	100	10
8	Disposal of surplus treated water	Cost of a. Pumping machinery	2.50	0.25

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Traffic generated from this project will confluent on existing 24m wide road and proposed 18m wide DP Road
Parking details:	**Number and area of basement:**	0
	Number and area of podia:	02 & Area-10,254.18 Sq.m
	Total Parking area:	16,820.0Sqm
	Area per car:	12.5 Sqm
	Area per car:	12.5 Sqm
	Number of 2-Wheelers as approved by competent authority:	1226
	Number of 4-Wheelers as approved by competent authority:	310
	Public Transport:	Via bus
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Residential & Commercial Development "V - UPTOWN"at Sr. No. 93/5 and 93/6 Village- Kiwale, Tal- Haveli, Dist- Pune,by **M/s.Tatvam Constructions Pvt. Ltd.**

PP submitted their application for modernization of earlier Environmental clearance for total plot area of 16600.0 Sq. Mtrs, BUA of 63688 Sq. Mtrs and FSI area of 26673.427 Sq. Mtrs. PP proposes to construct 6 no. residential & commercial building +2 bungalow+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

Committee decided to consider the project for upcoming SEAC meeting only after submission of revised CS.

Specific Conditions by SEAC:

1) PP to make necessary correction in CS.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for EXPANSION IN ENVIRONMENTAL CLEARANCE OF COMMERCIAL DEVELOPMENT PROJECT

Is a Violation Case: No

1.Name of Project	WESTEND . Expansion in Environmental Clearance of Commercial Project EC file no. 21-90/2016-1A.III dated 30.08.2017
2.Type of institution	Private
3.Name of Project Proponent	Ms. Ashwini Oak
4.Name of Consultant	SGM Corporate Consultants Pvt. Ltd.
5.Type of project	Commercial Project (Mall Multiplex and IT Offices development)
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion In Environment Clearance
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. First EC granted vide letter EC file no. 21-366/ 2007-1A.III dated 07.12.2007. EC validity was extended up to 07-12- 2017 by SEIAA on 11-06- 2014 and thereafter, amendment to EC was granted by MoEF (File no. 21-90/2016- 1A.III) dated 30.08.2017
8.Location of the project	S .No. 169/1, Sector I & II (part), Aundh, Pune-411007
9.Taluka	Haveli
10.Village	Aundh
Correspondence Name:	Ms. Ashwini Oak
Room Number:	-
Floor:	-
Building Name:	Sumashilp
Road/Street Name:	-
Locality:	93/5A , Erandawane, Pune-411004
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable. Building plans have been approved by Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: CC/3601/17 dated 27.3.2018
	Approved Built-up Area: 105368
13.Note on the initiated work (If applicable)	The work is under progress as per EC granted
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	29500 sq.m.
16.Deductions	-
17.Net Plot area	-
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 71,323
	b) Non FSI area (sq. m.): 34,045
	c) Total BUA area (sq. m.): 105368
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 71,323
	Approved Non FSI area (sq. m.): 34,045
	Date of Approval: 27-03-2018
19.Total ground coverage (m2)	8,634.21
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	35%
21.Estimated cost of the project	5200000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	Existing: 2 Basement + Ground North + Ground South + Higher Ground Floor + First Floor + Second Floor + Third Floor (Part) Completion Certificate from PMC is received for above mentioned areas. Proposed Third Floor (Part) to 12 th Floor	69.925 m
2	Building B	Existing: (IT building) 3 basements + Ground + 7 Floor Proposed 8 th Floor to 11 th Floor	48.90 m

23.Number of tenants and shops	193 Nos
24.Number of expected residents / users	Building A - 7,800 Nos Building B - 2,260 Nos Total (Bldg A+B = 10,060) Nos
25.Tenant density per hectare	Not Applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	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	Minimum 7.5 m
29.Existing structure (s) if any	Sector I Building A : 2 Basement + Ground North + Ground South + Higher Ground Floor + First Floor + Second Floor + Third Floor (Part) Completion Certificate from PMC is received for above mentioned areas. Sector II Building B : (IT building) 3 basements + Ground + 7 Floor Completion Certificate from PMC is received for above mentioned areas.
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):	236
	Recycled water - Flushing (CMD):	252
	Recycled water - Gardening (CMD):	30
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	638
	Fire fighting - Underground water tank(CMD):	599
	Fire fighting - Overhead water tank(CMD):	97.45
	Excess treated water	25
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	236
	Recycled water - Flushing (CMD):	252
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	608
	Fire fighting - Underground water tank(CMD):	599
	Fire fighting - Overhead water tank(CMD):	97.45
	Excess treated water	55
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	18 m
	Size and no of RWH tank(s) and Quantity:	No separate water tank is constructed for RWH. Recharge pits are provided
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	Sector 1: 5 pits; Sector 2: 15 pits; Total: 20 pits
	Size of recharge pits :	2m × 2m × 2m
	Budgetary allocation (Capital cost) :	18 Lakh
	Budgetary allocation (O & M cost) :	1.2 Lakh
	Details of UGT tanks if any :	UGT Capacity : Building A Fire= 339 m3/day; Domestic: 855 m3/day; Building B Fire= 260 m3/day; Domestic: 504 m3/day;
35.Storm water drainage	**Natural water drainage pattern:**	Yes
	Quantity of storm water:	0.18347 cubic meter/second
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	450
	STP technology:	Fluidised Media Bio Reactor
	Capacity of STP (CMD):	2 STP (1 STP for Building A of 500 m3/day + 1STP of Building B of 100 m3/day) Total capacity 600m3/day
	Location & area of the STP:	Ground; Area: 361 sq.m
	Budgetary allocation (Capital cost):	95 Lakh
	Budgetary allocation (O & M cost):	12 Lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	About 300 kg/day
	Disposal of the construction waste debris:	Construction debris will be recycled and utilized on the same site. No hazardous waste is involved
Waste generation in the operation Phase:	**Dry waste:**	684 kg/day
	Wet waste:	1,127 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	4 m3/day
	Others if any:	Inert Waste: 201 kg/day

Mode of Disposal of waste:	**Dry waste:**	Non-biodegradable/ Inert waste will be sold to authorized recycler and PMC
	Wet waste:	Will be composted in OWC
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Manure
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	75 sq.m
	Area for machinery:	25 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 Lakh
	O & M cost:	06 Lakh

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	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 :**	Sector I: 2,575 sq.m Sector II (Part): 3,436 sq.m Total RG provided at the site is 6011 sq.m.
	No of trees to be cut :	NIL
	Number of trees to be planted :	Trees are already planted at the site. Building A: 225nos Building B: 501 nos. Total 726 Nos of trees
	List of proposed native trees :	All the trees planted are native to the area
	Timeline for completion of plantation :	Completed

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ziziphus mauritiana	Bor	9	It's a spiny evergreen fruit bearing tree upto 15m height, with trunk 40cm or more, spreading crown. The fruit is eaten raw, pickled or used in beverages.
2	Magnolia champaca	Sonchafa	42	Fragnant flowers and timber used in wood working
3	Leucaena leucocephala	Su Babhul	58	Used for firewood, fiber and livestock farming
4	Acasia	Acasia	31	Sap from acacia tree known as acacia gum is used for medicinal purpose
5	Pithecellobium dulce	Vilayati Chinch	10	It's a drought resistant tree. The tree bears edible bean, the extracts from the leaves can be used as medicines.
6	Plumeria	Chafa	37	Medicinal plant. The flower extracts is used as fragnance
7	Azadirachta indica	Kadunimb	8	A high valued Medicinal plant
8	Arecaceae	Palm	40	Flowering plant
9	Swietenia mahagoni	Mohagani	59	Ornamental tree
10	Callistemon	Bottle grass	29	Flowering plant. They can be grown in pots
11	Gatterpal	Gatterpal	3	Ornamental tree
12	Delonix regia	Gulmohar	1	Flowering tree, the wood from the tree is enployed for local agricultural implements, handles for carpentry tools, combs, etc
13	Ficus benjamina	Ficus	4	Decorative plant
14	Bambusoideae	Bamboo	159	For construction purpose and as ornamental plant
15	Tikoma	Tikoma	204	Decorative plant
16	Silver Oak	Silver Oak	29	Decorative plant
17	Coconut	Coconut	1	Fruit bearing
18	Kanchan	Kanchan	1	Decorative plant
19	Chinch	Chinch	1	Fruit bearing

45.Total quantity of plants on ground	

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

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

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	NA
	During Operation phase (Connected load):	Building A: 11,245 KW Building B: 8,692 KW
	During Operation phase (Demand load):	Building A: 7,900 KVA Building B: 6,330 KVA
	Transformer:	Building A : 1X1250kVA, 3X2000kVA, 3X1000kVA Building B : 1X750kVA, 1X1600kVA, 2X1250kVA, 1X2000kVA
	DG set as Power back-up during operation phase:	12 DG sets of 4X2000 kVA, 2X1250kVA, 1X625kVA, 2X1010kVA, 3X600kVA capacity
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Power Capacitors are proposed for load power factor correction and to maintain a healthy power situation. This also results in less demand load factor for the project.
Most of the common area lighting are proposed to work on high energy efficient lamps(LED) as specified in bureau of energy efficiency which again results in saving in general consumption.
External & Common lighting is proposed on LED Lamps which results in 40% saving in consumption. These are set of lighting which are placed at critical junctions and which would be lit round the night. Low loss Transformers due to which 6.22% losses are saved against conventional transformer.
The glasses used along the periphery of the building are hi efficiency & ceramic fritted which reduces/reflect the heat & allows maximum sunlight inside the building.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED lighting, ernegy efficient lift (total saving in common areas)	46.58 % saving

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	160 Lakh
	O & M cost:	8 Lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water Spray	Dust Supression	06
2	Site sanitation	Toilets,safe drinking water, septic tank	15
3	Environmental Monitoring	Environmental Monitoring	06
4	Disinfection	Disinfection	04
5	Health Checkup and First aid	Health Checkup and First aid	03
6	Safety & PPE	Safety personal protective equipments	03
7	Safety nets	Safety nets	06
8	Storm water management	Storm water management	03

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Tertiary treatment	95	12
2	Rain water harvesting	RWH pits	18	1.2
3	Solid waste management	Mechanical Composting	15	06
4	Fire fighting	Fire fighting equipments	375	14
5	Landscape development	Plantation	40	05
6	Solar lighting & Energy	LED lights, VFD lights etc	160	08
7	Disaster Management Plan	-	886	50
8	Total	-	1,589	96.2

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Two
Parking details:	**Number and area of basement:**	Building A – 2 Basements; Building B – 3 Basements Area - Appx. 40,000 sq.mtrs. (excluding services)
	Number and area of podia:	Not applicable
	Total Parking area:	Appx. 40,000 sq.mtrs (excluding services)
	Area per car:	About 26 sq.m.
	Area per car:	About 26 sq.m.
	Number of 2-Wheelers as approved by competent authority:	5,341
	Number of 4-Wheelers as approved by competent authority:	1,899 1535 Basement + 364 Open (Parking will be provided in three shifts, 633 parking per shift)
	Public Transport:	The site is well connected to the public transport infrastructure. For category C & D employees buses will be provided.
	Width of all Internal roads (m):	6 & 9 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 (a) category “Building and Construction Projects”
	Court cases pending if any	1. Execution application No.08/2016 in Appeal no 48/2014 related to noise. The application is pending. 2. Appeal No 96/2015 - Speaking order of SEIAA extending the EC has been challenged. The application is pending. 3. Appeal No 165/2016 - Related to noise pollution caused by Building A. The application is pending. 4. Appeal No 108/2017 – Amended EC has been challenged, which is currently pending for delay condonation application.
	Other Relevant Informations	1) Recycled water (cooling) : 120 CMD (Total water consumption: Dry Season- 638 CMD; Total water consumption: Wet season- 608 CMD)
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	12-12-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Expansion of Commercial development project at S .No. 169/1, Sector I & II (part), Aundh, Pune by Ms. Ashwini Oak (WESTEND).

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 29500 Sq. Mtrs, BUA of 105368 Sq. Mtrs and FSI area of 71323 Sq. Mtrs. PP proposes to construct 2 no commercial building (Mall, Multiplex & IT offices).

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 a comparative statement considering all environmental parameters.
2) PP to submit details for E-Waste quantity and NOC for the same.
3) PP o submit water supply NOC.
4) PP to submit details of disposal of solid waste with swatch NOC.
5) PP to submit fire tender movement plan showing width & slope.
6) PP to submit parking layout plan showing layout before and after.
7) PP to submit revised indemnity bond for project land.
8) PP to submit details of SWD up to final disposal point.
9) PP to submit cross section 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.
10) PP to submit phase wise programme considering wind direction at site and mitigation plan to avoid inconvenience to residence.
11) PP to submit details of sewer line connectivity up to final disposal point.
12) PP to submit site specific EMP.
13) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.
14) PP to submit energy saving calculation along with terrace area calculations.
15) PP to submit statement showing how he has disposed excess debris.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Proposed Amendment in Environmental Clearance for Residential Project

Is a Violation Case: No

1.Name of Project	Raheja Vistas Premiere
2.Type of institution	Private
3.Name of Project Proponent	M/s. Inorbit Malls (India) Pvt. Ltd.
4.Name of Consultant	Green Circle, Inc.
5.Type of project	Residential
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	S. no.37/3,37/4,27/1,27/2,27/3,27/4,27/5,25/4,26/1+9a,26/2a +2B
9.Taluka	Pune
10.Village	Mohammad Wadi
Correspondence Name:	Mr. Mayur Jadhav
Room Number:	Survey no. 144 & 145
Floor:	CTS no. 2648 & 2649
Building Name:	Comner zone Building number 7
Road/Street Name:	village Yerwada
Locality:	Yerwada
City:	Pune
11.Area of the project	Pune Municipal Corporation [PMC]
12.IOD/IOA/Concession/Plan Approval Number	DPO/CC/3891/10 DATED: 14/02/2011, DPO/CC/1996/11 DATED: 08/09/2011, DPO/CC/2845/12 DATED: 29/12/2012
	IOD/IOA/Concession/Plan Approval Number: DPO/CC/2845/12 DATED: 29/12/2012
	Approved Built-up Area: 282590.49
13.Note on the initiated work (If applicable)	Yes, as per earlier EC Letter Vide no. SEAC- 200/CR.437/TC.2 dtd. 24th January, 2011
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	DPO/CC/3891/10 DATED 14/02/2011, DPO/CC/1996/11 DATED 08/09/2011, DPO/CC/2845/12 DATED 29/12/2012
15.Total Plot Area (sq. m.)	130877.97 sq. m.
16.Deductions	29773.94 sq. m.
17.Net Plot area	101104.03 sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 152714.10 sq. m.
	b) Non FSI area (sq. m.): 126760.64 sq. m.
	c) Total BUA area (sq. m.): 279474.74
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)	29384.43
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	35.34
21.Estimated cost of the project	6580000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building Tower No: T1 A	5P+G+4	30
2	Building Tower No: T1 B	5P+G+6	38
3	Building Tower No: T2 A	5P+G+6	38
4	Building Tower No: T2 B	5P+G+4	30
5	Building Tower No: T3	5P+G+4	30
6	Building Tower No: T4	5P+G+4	30
7	Building Tower No: T5	2P+G+18	70
8	Building Tower No: T6	2P+G+18	70
9	Building Tower No: T7	5P+G+27	100
10	Building Tower No: T8	5P+G+27	100
11	Building Tower No: T9	5P+G+27	100
12	Building Tower No: T10	5P+G+27	100
13	Building Tower No: T11 A	5P+G+4	30
14	Building Tower No: T11 B	5P+G+4	30
15	Building Tower No: T12	3P+G+18	70
16	Building Tower No: T13	2P+G+18	70

23.Number of tenants and shops	1354
24.Number of expected residents / users	6770
25.Tenant density per hectare	103/ hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 Mtr./ 24 Mtr.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Yes
30.Details of the demolition with disposal (If applicable)	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 Water supply / Tankers
	Fresh water (CMD):	609.30 m3/day
	Recycled water - Flushing (CMD):	304.65 m3/day
	Recycled water - Gardening (CMD):	180 m3/day
	Swimming pool make up (Cum):	5 m3/day
	Total Water Requirement (CMD) :	1093.95 m3/day
	Fire fighting - Underground water tank(CMD):	600 m3/day
	Fire fighting - Overhead water tank(CMD):	25 m3/day
	Excess treated water	250 m3/day
Wet season:	**Source of water**	PMC Water supply / Tankers
	Fresh water (CMD):	609.30 m3/day
	Recycled water - Flushing (CMD):	304.65 m3/day
	Recycled water - Gardening (CMD):	90 m3/day
	Swimming pool make up (Cum):	3 m3/day
	Total Water Requirement (CMD) :	1003.95 m3/day
	Fire fighting - Underground water tank(CMD):	600 m3/day
	Fire fighting - Overhead water tank(CMD):	25 m3/day
	Excess treated water	340 m3/day
Details of Swimming pool (If any)	main pool - 707 sqm , kids pool 117 sqm , jacuzzi - 25 sqm Dimension - 30 m x 22 m main pool - 831 m3 , kids pool 200 m3 , jacuzzi - 68 m3, 65 m3	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	610	-	610	125.35	-	125.35	484.65	-	484.65
Domestic	468	-	468	175.65	-	175.65	292.35	-	292.35
Gardening	300	180	300	-	-	-	-	-	-

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	30 to 32 m bgl
	Size and no of RWH tank(s) and Quantity:	tank 2
	Location of the RWH tank(s):	On ground
	Quantity of recharge pits:	58 Nos. of RWH Pits
	Size of recharge pits :	50 cu.m
	Budgetary allocation (Capital cost) :	10 lakhs
	Budgetary allocation (O & M cost) :	1.5 lakhs
	Details of UGT tanks if any :	Residential: • Domestic UG tank Capacity: 1060KLD • Flushing UG tank Capacity: 150 KLD • Fire UG tank Capacity: 600 KLD
35.Storm water drainage	**Natural water drainage pattern:**	Rain water flowing from north towards south
	Quantity of storm water:	30.21 m3/hr
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	777
	STP technology:	The decentralized sewage treatment facility is proposed with tertiary treatment and Ozonation (only for flushing)
	Capacity of STP (CMD):	8 no. of STP Capacity 810 KLD: (180+70+20+80+190+190+40+40)
	Location & area of the STP:	Aeration tank on ground
	Budgetary allocation (Capital cost):	177 lakhs
	Budgetary allocation (O & M cost):	25 lakhs/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	81 kg/day
	Disposal of the construction waste debris:	construction debris, waste concrete and broken bricks will be utilized in low -land leveling, secondary concrete, below roads. some quantity of excavation soil will be use for back filling and remaining will be hand over to authorized vendor.
Waste generation in the operation Phase:	**Dry waste:**	5300 kg/day
	Wet waste:	1200 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	1.6 MTY
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	The non-biodegradable waste will be handed over to authorized vendor from the ULB.
	Wet waste:	The sludge from the STP and green waste from the landscape development will be collected and treated within the premises.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be dried and used as manure for gardening purpose.
	Others if any:	NA
Area requirement:	**Location(s):**	Not Applicable
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not Applicable
	O & M cost:	Not Applicable

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	BOD 3 days @ 27 deg C	ppm	300	<10	10
2	COD	ppm	525	50	100

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	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	200 KVA	Diesel	1	6	90 mm	110
2	125 KVA	Diesel	10	6	90 mm	110

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	36970
	No of trees to be cut :	NA
	Number of trees to be planted :	1281
	List of proposed native trees :	Neem, Kanchan, Bahava, peepal etc..
	Timeline for completion of plantation :	3 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	khaya	mohogani	77	Greenish white scented flowers, evergreen & Shade givibg
2	Azadirachta Indica	Neem	92	Evergreen, Medicinal Value, Odour Resistant, Habitat for bireds
3	BAuhinia Blackeana	Kanchan	75	Ornamental and Scented flowers
4	Bauhibnia Purpurea	Rakta Kanchan	31	Ornamental and Scented flowers
5	Bombax ceiba	Kate Savar	90	Dust & Urban pollution tolerant, Ornamental and shades giving
6	Cassia fistula	Bahava	85	Leguminous and Nitrogen fixing, Drought Resistant
7	Cassia Siamea	-	47	Leguminous and Nitrogen fixing, Drought Resistant
8	Ficus Elastica	Rubber	60	Evergreen & Commercial Value
9	Ficus Religiosa	peepal	34	Shade giving, Religious significance
10	Lagerstroemia Speciosa	Taman	135	Ornamental
11	Michelia Champaka	Piwala Chapha	45	Fragrant, Evergreen
12	Millingtonia Hortensis	booch	67	Fragrant, Evergreen, Shade Giving
13	Mimusops Elengi	Bakul	18	Fragrant, Evergreen, Shade Giving
14	Murraya Paniculata	Kamini	39	Scented Flowers, Ornamental
15	Mutingia Calabura	Cherry	60	Edible fruit, Habitat for Birds
16	Plerocarpus Marsupium	Bija	60	Dust & Urban Pollution Tolerant
17	Pterospermum Acerifolium	muchkund	58	Evergreen
18	Saraeca Indica	Ashoka	42	Sacred tree
19	Schlrichera Oleosa	Kusum	44	Ornamental & Good soil Binder
20	Teminalia Arjuna	Arjun	100	Dust & Urban Pollution Tolerant, Noise Resistant
21	Thespesia Populnea	Ranbhendi	22	Evergreen & Shade Giving
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	400 KW
	DG set as Power back-up during construction phase	1x 200 KW
	During Operation phase (Connected load):	11350 KW
	During Operation phase (Demand load):	16,300 KVA
	Transformer:	615x2
	DG set as Power back-up during operation phase:	125 x 10 No's
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

solar lighting for street lighting.
energy efficient CFL lamps/LED lamps with electronic ballast shall be used for common area lighting.
solar hot water is being proposed for club house and common toilet in each unit @ 50 lts/unit/day.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	The street lighting is designed with sensor based and timer based system and it is envisaged that 30% of the power will be saved by this advancement. 2) The centralized solar water heating system is proposed for hot water supply. The hot water will be available 24x7 with a backup of Heat pump. It is envisaged that the power demand will get reduced by 30%. 3) The onsite renewable power generation is also proposed for common area lighting. The feasibility of hybrid power (solar + wind) will be e	30

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	100 lakhs
	O & M cost:	3.51 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	Waste for dust suppression	Particulate matter	4.0
2	Site Sanitation & Safety	-	2.5
3	Environmental Monitoring Air, water	Air, water, noise	4.5
4	Disinfection	-	3.0
5	Health Check up	All relevant parameters	3.2

b) Operation Phase (with Break-up):				
Serial Number	**Component**	**Description**	**Capital cost Rs. In Lacs**	**Operational and Maintenance cost (Rs. in Lacs/yr)**
1	STP cost	Sewage Treatment Plant	177	28
2	Air, water, noise, soil	Environment Monitoring	-	4
3	Energy	Energy saving -- Solar Water Heater, CFL-LED lamps, electronic VVF drive for lifts	100	3.50
4	Garden	Landscape Cost	86	14
5	Solid waste	Organic Waste Composter	48	7
6	Groundwater recharge	Rain Water Harvesting	10	1.5
7	swimming pool	-	5	1.5
8	Tanker water	-	-	87.6

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	3 Nos.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	30760
	Area per car:	2.5mt.x 5 mt
	Area per car:	2.5mt.x 5 mt
	Number of 2-Wheelers as approved by competent authority:	2629
	Number of 4-Wheelers as approved by competent authority:	1936
	Public Transport:	Auto rickshaw stand within 15 m from entrance gate.
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	B
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Amendment in Environmental Clearance for Residential Project at S. no.37/3,37/4,27/1,27/2,27/3,27/4,27/5,25/4,26/1+9a,26/2a +2B, Mohammad Wadi,Pune by M/s. Raheja Vistas Premiere.

PP submitted their application for amendment in earlier Environmental clearance for total plot area of 130877.97 Sq. Mtrs, BUA of 279474.74 Sq. Mtrs and FSI area of 152714.10 Sq. Mtrs. PP proposes to construct 16 no. residential & commercial building.

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

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 HRC & civil aviation NOC.
2) PP to submit details for E-Waste quantity and NOC for the same.
3) PP to submit water supply NOC.
4) PP to submit CFO NOC.
5) PP to submit phase wise programme considering wind direction at site and mitigation plan to avoid inconvenience to residence.
6) PP to submit disaster management plan in detail with hospital list, lightning arrester, costing etc.
7) PP to submit a section through storm water drain and drawing showing the section through the final chamber within property and municipal chamber, along with details of invert level.
8) PP to submit cross section 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.
9) PP to submit STP design and drawing for proposed 7 STP.
10) PP to submit revised EMP.
11) PP to submit cross section through UGT with top of tank, and maintain some distance above the ground level.
12) PP to provide mandatory RG area on virgin land and submit the drawing with calculations
13) PP to submit debris management plan with excess earth disposal details & NOC.
14) PP to submit details of sewer line connectivity up to final disposal point.
15) PP to submit revised water balance chart.
16) PP to submit revised tree list with an undertaking for survival rate of plantation.
17) PP to submit environmental status report considering monitoring data.
18) PP to submit Regional Office, Nagpur visit compliance report.
19) PP to submit details of socioeconomic infrastructure in project vicinity.
20) PP to submit energy saving calculation along with terrace area calculations.
21) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.

FINAL RECOMMENDATION

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

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Proposed construction project by M/s G.K. Associates

Is a Violation Case: No

1.Name of Project	Silverland residency Phase-I
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vinod Chandwani
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Expansion
8.Location of the project	S.No. 63/2, 64/7
9.Taluka	Haveli
10.Village	Ravet
Correspondence Name:	G.K. Associates S.No.120/2A, Opposite Shivar Garden, Pimple Saudagar, Pune-411027.
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	-
City:	Pune
11.Area of the project	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 56554.23
13.Note on the initiated work (If applicable)	28,706.30 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	2635.60 m2
15.Total Plot Area (sq. m.)	14808.00m2
16.Deductions	1652.79m2
17.Net Plot area	13155.21m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 26306.42m2
	b) Non FSI area (sq. m.): 30247.81m2
	c) Total BUA area (sq. m.): 56554.23
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)	2932.05m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.80% of Total plot area (14808.00m2) and 22.28% of Net plot area (13155.21m2)
21.Estimated cost of the project	1100000000

22.Number of buildings & its configuration

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

1	Building A -MHADA	G+P+11	35.25
2	Building-B	LP+P+11	31.90
3	Building-C	LP+P+11	31.90
4	Building-D	LP+P+11	31.90
5	Building-E	LP+P+11	31.90
6	Building-F	LP+P+11	31.90
7	Building-G	LP+P+8	23.20

23.Number of tenants and shops	Total Tenements – 529Nos. Shops- 14Nos
24.Number of expected residents / users	Residential Users : 2645Nos, Commercial Users :108Nos, Total Users: 2753Nos.
25.Tenant density per hectare	357
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18M wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Not Applicable
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	377.25 m3/day (One time)
	Recycled water - Flushing (CMD):	121.72 m3/day
	Recycled water - Gardening (CMD):	10.32m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	245.21m3/day
	Fire fighting - Underground water tank(CMD):	350.00 m3
	Fire fighting - Overhead water tank(CMD):	40 m3
	Excess treated water	198.18m3/day
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	366.93 m3/day (One time)
	Recycled water - Flushing (CMD):	121.72m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	366.93 m3/day
	Fire fighting - Underground water tank(CMD):	350.00 m3
	Fire fighting - Overhead water tank(CMD):	40 m3
	Excess treated water	208.50m3/day
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre-Monsoon: 20m-25m BGL and Post Monsoon: 6m -8m BGL
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	25 Nos
	Size of recharge pits :	2m x 2m x 2m
	Budgetary allocation (Capital cost) :	Rs 3.00 Lakh
	Budgetary allocation (O & M cost) :	Rs.2.00 Lakh/Year
	Details of UGT tanks if any :	Residential: Domestic UG tank Capacity: 24.00 m3 Flushing tank capacity: 175.00 m3 Fire UG tank Capacity: 350.00 m3 MHADA & Commercial: Domestic UG tank capacity: 05.00 m3 Flushing tank capacity: 24.00 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	504.10m3/ year
	Size of SWD:	300mm to 600mm
Sewage and Waste water	**Sewage generation in KLD:**	330.22m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	230+70+40 m3/day
	Location & area of the STP:	171.60 m2
	Budgetary allocation (Capital cost):	STP-1 (230m3/day)- Rs. 56.00 Lakh, STP-2 (70m3/day)- Rs 28.00 Lakh, STP-3 (40m3/day)- Rs 21.00 Lakh
	Budgetary allocation (O & M cost):	STP-1 (230m3/day)- Rs. 11.58 Lakh/Year, STP-2 (70m3/day)- Rs 6.65 Lakh/Year, STP-3 (40m3/day)- Rs 5.76 Lakh/Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	35 Kg/day
	Disposal of the construction waste debris:	Use for Leveling
Waste generation in the operation Phase:	**Dry waste:**	545.2 Kg/day
	Wet waste:	804.3 Kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	29.71 Kg/day
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	SWaCH
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	-
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	94.00 m2
	Area for machinery:	Included in other material area.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.28.75 Lakh
	O & M cost:	Rs.6.39Lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set- 160 KVA-1No, 82.5KVA-1No	HSD-30 Lits/Hr for 160 KVA, HSD-18.9 Lits/Hr for 82.5KVA	S-1 & S-2	5.22 Mtr for 160 KVA & 4.45Mtr for 82.5KVA	As per norms	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total

1	HSD	Not applicable	30 Lits/Hr & 18.9 Lits/Hr	48.9 Lits/Hr
41.Source of Fuel		Bharat Petroleum Corporation Limited/Hindustan Petroleum		
42.Mode of Transportation of fuel to site		By Roadway		

43.Green Belt Development	**Total RG area :**	1562.45m2
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	184 Nos.
	List of proposed native trees :	184 Nos.
	Timeline for completion of plantation :	Mid of construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mimusop Ellengii	Bakul	13	Fragrant flowers, Medicinal value, To control soil erosion.
2	Cassia Glauca	Cassia	15	Yellow flowering, avenue creation, can survive with small qty of water, controls soil erosion, shady.
3	Acrus Sapota	Chickoo	24	Edible fruit, Bird attracting species.
4	Michilli Champaka	Sonchaffa	15	Great fragrant flowers, flowers are in demand throughout the year, used for worshipment. Creates avenue.
5	Royal Palm	Bottle Palm	14	Avenue Plant.
6	Mangifera indica	Mango	15	Edible fruit, Bird attracting species
7	Bauhinia Blackenea	Kanchan	08	Indigeneous specie, maroon color flowering, shady.
8	Codia Sabistana	Cordia	08	Orange flowering, grows tall, indigeneous species. Shady.
9	Millingtonia	Indian Cork tree	12	Local name- Booch, White fragrant flowering, Grows tall, Shady.
10	Plumeria Alba	Franjipani	17	White fragrant flowers throught the year.Can be Trimmed & shaped. Dense foliage. Used for worshipment.
11	Ficus Benjamina	Nandaruk	26	Grows tall, very dense foliage. Shady. Can be Trimmed and shaped. Highlighter of garden.
12	Foxtail Plam	Foxtail Palm	17	Avenue Plant.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50KW
	DG set as Power back-up during construction phase	1 No. x 62.5KVA
	During Operation phase (Connected load):	2323 KW
	During Operation phase (Demand load):	1223 KW
	Transformer:	2 Nos. x 630 KVA & 1No. x 315 KVA
	DG set as Power back-up during operation phase:	1 No. x 160KVA & 1No. x 82.5KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

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

? Electronic Ballasts and Energy efficient lamp source either triposphere or CFL are proposed for common area & general lighting with automatic time based control to save power by switching ON & OFF the lights at appropriate time. The estimated saving in common lighting consumption is up to 15 % due to adopting above measures.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Low power high efficiency CFL/LED lights in Land-scpae & Street lights.	6570 KWH
2	Low power high efficiency T5/LED lights for Parking & Lobby Area.	33244 KWH
3	Low power high efficiency CFL/LED lights in Solar Street Lights.	5256 KWH
4	Energy saving by solar water heater.	925221 KWH
5	Total of all Savings for (per year)	970291 KWH
6	Total of all Savings for (per Day)	2658 KWH
7	Total Energy Consumption With Energy Saving Measure = Demand Load x 24 Hrs	29352 KWH
8	Persantage Saving.	9.0%

50.Details of pollution control Systems

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

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 86.00 Lakh
	O & M cost:	Rs. 1.8 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 Environment	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Creches For Children, Food for children, Personal Protective Equipment	1.00Lakh/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	1.	STP-1 (230m3/day)	56.00 Lakh	11.58 Lakh/Year
2	2.	STP-2 (70m3/day)	28.00 Lakh	6.65 Lakh/Year
3	3.	STP-3 (40m3/day)	21.00 Lakh	5.76 Lakh/Year
4	4.	RWH	3.00 Lakh	2.00 Lakh/Year
5	5.	MSW (750 Kg/day)	20.25 Lakh	4.16 Lakh/Year
6	6.	MSW (125 Kg/day)	8.50 Lakh	2.23 Lakh/Year
7	7.	Energy System	86.00 Lakh	1.8 Lakh/Year
8	8.	Landscaping	15.00 Lakh	4.00 Lakh/Year
9	9.	Safety Equipment	10.00 Lakh	2.00 Lakh/Year
10	10.	Post EC Monitoring	-	2.50 Lakh/Year
11	11.	Dry Waste Management	-	0.31 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:**	-
	Number and area of podia:	-
	Total Parking area:	16481.62 m2
	Area per car:	60.81 m2
	Area per car:	60.81 m2
	Number of 2-Wheelers as approved by competent authority:	1076
	Number of 4-Wheelers as approved by competent authority:	271
	Public Transport:	-
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	-
	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 Applicable
	Other Relevant Informations	-

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed construction project Silverland residency Phase-I,at S.No. 63/2, 64/7,Ravet,Tal- Haveli Pune by M/s G.K. Associates.

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 14808.00 Sq. Mtrs, BUA of 56554.23 Sq. Mtrs and FSI area of 26306.42 Sq. Mtrs. PP proposes to construct 7 no. residential & commercial building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF & CC circular dated 1/05/2018.
2) PP to upload energy saving calculations.
3) PP to submit debris management plan.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Expansion for the residential cum commercial construction project

Is a Violation Case: No

1.Name of Project	Aeropolis
2.Type of institution	Private
3.Name of Project Proponent	Krishna Developers
4.Name of Consultant	Pollution and Ecology Control Services - EMP consultant
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Vide no. SEAC-2013/CR-297/TC-2
8.Location of the project	Old S. No. 284/4, 284/5/3,284/5/4,284/6,New sr no:284/7/1,284/7/2,284/7/3,284/7/4,284/7/5,284/7/6
9.Taluka	Haveli
10.Village	Lohgaon
Correspondence Name:	Navin Agrawal
Room Number:	284
Floor:	Ground
Building Name:	AEROPOLIS
Road/Street Name:	Porwal Road
Locality:	Lohagaon
City:	Pune
11.Area of the project	PMC
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number:
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Total constructed area 30991.17 sqm As per sanction plan vide no. 3414 dated 15/02/2016 and previous EC vide no SEAC-2013/CR-297/TC-2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	27550
16.Deductions	7660.20
17.Net Plot area	19889.80
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 34076.73 (As per previous EC 25210 + Proposed 8899.13)
	b) Non FSI area (sq. m.): 25183.18 (As per previous EC 15224.61 + 9958.57)
	c) Total BUA area (sq. m.): 59259.91
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 25210
	Approved Non FSI area (sq. m.): 15224.61
	Date of Approval: 15-02-2016
19.Total ground coverage (m2)	4772
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24
21.Estimated cost of the project	1300000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A (Existing as per previous EC)	B + P + 11	36
2	Building B (Existing as per previous EC)	B + P + 11	36
3	Building C (Existing as per previous EC)	B +P +11	36
4	Building D (Existing as Per previous EC)	P +11	34.35
5	Building E (as per previous EC P +3 , now proposed for 11 floors)	P +11	34.35
6	Commercial (Existing as per previous EC)	G + 0	4.50
7	Club House (2)	G +1	7.2

23.Number of tenants and shops	As per previous EC : Tenements 412 and shops 38 Existing : Tenements 198 and shops 38 Proposed: Tenements 114 Total: Tenements :526 + 38 Shops
24.Number of expected residents / users	As per previous EC: Residential Population : 2060 and commercial: 120, Existing: Residential Population : 990 + commercial 120, Proposed : Residential 570, Total: Residential : 2630 and commercial 120
25.Tenant density per hectare	190 tenements/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m and 30 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Building A, B, C complete. D building 11 floors complete, E building excavation done.
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):	239 (For Existing tenements: 92)
	Recycled water - Flushing (CMD):	123 (For Existing Tenements: 48)
	Recycled water - Gardening (CMD):	23 (For existing landscape: 18)
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	385 (for Existing tenements: 156)
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	25 KL /bldg
	Excess treated water	190 KL (Existing 62)
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	239 (For Existing tenements: 92)
	Recycled water - Flushing (CMD):	123 (For Existing Tenements: 48)
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	362 (for Existing tenements: 140)
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	25 KL /bldg
	Excess treated water	296 KL (Existing 80)
Details of Swimming pool (If any)	Dimension of Swimming Pool: 50 ft X 20.3 ft X 4 ft Total water Requirement in KLD: 1, 39,000 Ltrs. Water requirement for make up in KLD: 5,000 Ltrs Details of Plant & Machinery used for treatment of Swimming pool water: As per Annexure I Details of quality to be achieved for swimming pool water and parameters to be monitored: a. pH : 7.2 b. Chlorine level : 1.5 to 2.2 mg/l	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	92	52	144	9.2	5.2	14.4	82.8	46.8	129.6
Gardening	18	5	23	18	5	23	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	18-20 m
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	12
	Size of recharge pits :	1.80x 1.80 x 2.40 m
	Budgetary allocation (Capital cost) :	45.65 lakhs
	Budgetary allocation (O & M cost) :	4.65 lakhs/pa
	Details of UGT tanks if any :	Residential: Domestic UG tank Capacity: 350 KL Treated Water UG tank Capacity: 180 KL Fire UG tank Capacity: 250 KL Commercial: Not Applicable Domestic UG tank Capacity: Considered in Residential Area Flushing UG tank Capacity: Considered in Residential Area
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	5775.00 CUM/year (before development) quantity of storm water : 6468.00 CUM/year (after development)
	Size of SWD:	RCC pipe from 300 to 600 mm Ø
Sewage and Waste water	**Sewage generation in KLD:**	326
	STP technology:	MBBR
	Capacity of STP (CMD):	2 STP , 140 (Existing) + 200 (Proposed)
	Location & area of the STP:	As per layout
	Budgetary allocation (Capital cost):	80 lakhs
	Budgetary allocation (O & M cost):	20 lakhs/pa

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 % of raw material
	Disposal of the construction waste debris:	Land filling on the same site
Waste generation in the operation Phase:	**Dry waste:**	473
	Wet waste:	756
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	(20.80 +34.20)=55 Kg/day
	Others if any:	E waste : 530 kg/year

Mode of Disposal of waste:	**Dry waste:**	Through authorized vendor
	Wet waste:	Treatment with organic waste converter
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Through organic waste converter
	Others if any:	E waste Through authorized vendor
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	90 m
	Area for machinery:	60 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	24.87 lakhs
	O & M cost:	6.5 lakhs pa

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	COD	mg/l	300-400	<30	Not to be exceed 100 mg/l
3	BOD	mg/l	250-300	<10	Not to exceed 10 mg/l
4	TSS	mg/l	350-450	<5	Not to exceed 50 mg/l
5	O & G	mg/l	10	<5	Not applicable
6	TDS	mg/l	Not applicable	<1000	Not applicable
7	Total Nitrogen	mg/l as N	40-50	<10 or equal	Not applicable
8	Ammonical Nitrogen	mg/l	5-7	<2 or equal	Not applicable
9	Total Phosphate	mg/l	5-7	<2 or equal	Not applicable
10	Feacal Coliform	MPN/100	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 :**	3046 sqm
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	304
	List of proposed native trees :	As per list
	Timeline for completion of plantation :	2 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	bahava	12	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
2	Anthocephalus kadamba	Kadamba	12	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
3	Bauhinia blakiana	Kanchanraj	12	Every part of the plant is medicinal , Drought tolerant species
4	Butea monosperma	Palas	12	Medicinal value, Bird attracting species , To control soil erosion.
5	Dalbbergia sissoo	Shisav	12	Medicinal value, Bird attracting species
6	Azardirachta indica	Neem	12	Medicinal value, To control soil erosion. To improve soil erosion
7	Bauhinia purpurea	Gulabi kanchan	12	Every part of the plant is medicinal , Drought tolerant species.
8	Ficus glomurata	Umber	12	Medicinal value, Edible fruits, Bird attracting species
9	Michellia champaca	Sonchaffa	12	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
10	Ficus microcarpa	Nandruk	12	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.

11	Pongamia pinnata	Karanj	12	Medicinal value, Drought tolerant species, To control soil erosion. Hardy plant.
12	Choclospermum religiosum	Sonsaver	12	Medicinal value, Native species
13	Albizzia lebek	Shirish	12	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds)
14	Cordia dichotoma	Bhoker	12	Medicinal value, Edible fruits,
15	Ficus arnottiana	Payar	12	Drought tolerant species, Bird attracting species. To control soil erosion
16	Roystonia regia	Bottle palm	4	Ornamental plant, Medicinal value, Birds & bats eat fruits.
17	Caryota urens	Fishtail palm	8	Grown in any type of soil. Very Hardy.
18	Ailathus excelsa	Maharukh	12	Medicinal value
19	Phyllanthus emblica	Awala	12	Medicinal value
20	Mangifera indica	Mango	12	Edible fruit, Bird attracting species.
21	Saraca indica	Sita Ashok	12	Medicinal value, Religious plant
22	Syzygium cumini	Jamun	10	Medicinal value, Edible fruit.
23	Citrus species	Lemon	8	Medicinal value, Edible fruit.
24	Erythrina indica	Pangara	8	Fragrant flowers, Drought tolerant species, Birds attracting
25	Bahunia racemosa	Apta	8	Every part of the plant is medicinal, Drought tolerant species.
26	Putrnjiva roxburghii	Putrnjiva	3	Medicinal value, Drought tolerant species,
27	Nyctanthus arbotritrits	Parijatak	4	Fragrant flowers, Medicinal value,
28	Aegle marmelos	Bel	8	Medicinal value, Edible fruit
29	Murraya koengii	Kadipatta	12	Medicinal value, Edible leaves.
30	Mimosups elengii	Bakul	3	Fragrant flowers, Medicinal value, To control soil erosion.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	40 KW
	DG set as Power back-up during construction phase	40 KVA
	During Operation phase (Connected load):	2726 KW (3028 KVA)
	During Operation phase (Demand load):	2423 KVA.
	Transformer:	22KV / 630 KVA – 2 Nos.
	DG set as Power back-up during operation phase:	125 KVA (Existing) and 160 KVA (Proposed)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Solar Water Heating Systems Will Be Done For Bathrooms.

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

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

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

• Water Level Controllers With Timers will be Used for Water Pumps.

• To create awareness to end consumer or flat owner, for using energy efficient light fittings like CFL, T5 Lamps & LED Lights.
• Detail calculations & % of saving: 2To4%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	1) LED Lamp & Fitting For Common Areas i.e. Bldg. Parking, Staircase, Passage & Terrace Floor.	29172.99 KWH/Year
2	2) Bollard Lighter - Light Fitting For Landscape Area.	148 KWH/year
3	Recesses Wall Light. - Light Fitting For Landscape Area.	275.94 KWH/year
4	Planter Of Lighter - Light Fitting For Landscape Area.	289.08 KWH /year
5	Solar Street Light Fitting - Pole Light On Road Side.	1095.00 KWH/year
6	Street Light on the Bldg.	1314.00 KWH/year
7	Energy Saving by Solar Hot Water System.	591750 KWH/year

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	80.20 lakhs
	O & M cost:	1.60 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 & barricading	Dust suppression method	2.5
2	Site Safety & Site Sanitation	PPE to Labour provide STP to labour camp	3
3	Disinfection & health check up	Health camp	1.5
4	Environmental Monitoring	air,soil, water and noise monitoring	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	STP	2 STPs of MBBR technology	96	21.20
2	Solid waste Management	two organic waste converter	24.87	6.5
3	Storm water network	Internal piping and piping up to final disposal	30	3
4	Rain water harvesting	Recharge pits and bores	45.65	4.65
5	Rain water harvesting	Recharge pits and bores	45.65	4.65
6	Landscape	Tree plantation	37.12	5.95
7	Energy	Energy saving methods	80.20	1.20
8	Environment monitoring	Air and noisse monitoring and water and soil analysis	0	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 and 3084 sqm
	Number and area of podia:	0
	Total Parking area:	12522.40 sqm
	Area per car:	35 m
	Area per car:	35 m
	Number of 2-Wheelers as approved by competent authority:	971
	Number of 4-Wheelers as approved by competent authority:	264
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Expansion for the residential cum commercial construction project at Old S. No. 284/4, 284/5/3,284/5/4,284/6.New sr no: 284/7/1,284/7/2,284/7/3,284/7/4,284/7/5,284/7/6, Lohgaon,Pune by M/s. Krishna Developers.

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 27550 Sq. Mtrs, BUA of 59259.91 Sq. Mtrs and FSI area of 34076.73 Sq. Mtrs. PP proposes to construct 6 no. residential & commercial building + club house.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit approved copy of plan.
2) PP to submit energy saving calculation along with terrace area calculations.
3) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.
4) PP to submit revised parking statement.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Expansion in Existing project by M/s Laukik Construction Company

Is a Violation Case: No

1.Name of Project	PELICAN & ICKON
2.Type of institution	Private
3.Name of Project Proponent	Mr. Amol Ramdas Konde
4.Name of Consultant	JV Analytical Services
5.Type of project	Residential & Amenity
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes(Vide No SEAC III 2015/CR 192/TC-3 dated 2nd Feb, 2017)
8.Location of the project	S.No.403/1, 403/3, 403/6, 403/7/1, 403/7/2, 406/2, 428/2
9.Taluka	Mulshi
10.Village	Ambadvet
Correspondence Name:	Mr. Sachin Jagtap
Room Number:	Flat No. A-10
Floor:	-
Building Name:	Mark Park Appt
Road/Street Name:	Pandurang Colony
Locality:	Erandwana
City:	Pune
11.Area of the project	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: Plan Approval No.-C.R.No.-3454/Mouza-Ambadvet(Residential) & C.R.No.953/17818/Mouza Ambadvet(Amenity)
	Approved Built-up Area: 30554.33
13.Note on the initiated work (If applicable)	Building B-11815.68 m2(As per previous EC received on 2nd Feb, 2017)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	18655.00m2
16.Deductions	2969.21m2
17.Net Plot area	15685.79m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 15553.75m2
	b) Non FSI area (sq. m.): 15000.58m2
	c) Total BUA area (sq. m.): 30554.33
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 15553.75m2
	Approved Non FSI area (sq. m.): 15000.58m2
	Date of Approval: 15-11-2017
19.Total ground coverage (m2)	2105.63m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	11.28% of Total plot area (18655.00m2), 13.42% of Net plot area (15685.70m2)
21.Estimated cost of the project	716500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	B	P+13	41.77 m
2	C	P+01	6.00 m
3	Amenity Building	P+04	16.80 m

23.Number of tenants and shops	Residential – 269 Nos, Clinic- 08 Nos, Dispensary- 08 Nos, Shop- 30 Nos, Multipurpose Hall- 04 Nos.
24.Number of expected residents / users	Residential Population- 1345 Nos, Amenity Population- 368 Nos.
25.Tenant density per hectare	144.19
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24.00 M wide DP 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	Not Applicable
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Ambadvet Gram Panchayat
	Fresh water (CMD):	227.02 m3/day (One time)
	Recycled water - Flushing (CMD):	73.98 m3/day
	Recycled water - Gardening (CMD):	14.14 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	138.91 m3/day
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	40 m3
	Excess treated water	103.49 m3/day
Wet season:	**Source of water**	Ambadvet Gram Panchayat
	Fresh water (CMD):	212.88 m3/day (One time)
	Recycled water - Flushing (CMD):	73.98 m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	138.91 m3/day
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	40 m3
	Excess treated water	117.63 m3/day
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season 21.50m. to 26.25m. BGL.(23.88 m.BGL), Rainy Season – 8.00m. to 13.00 BGL.(10.50 m. BGL), Winter Season –14.75m. to 19.63 m. BGL.(17.19 m.BGL.)
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	05 Nos.
	Size of recharge pits :	2.25 m x 2.25 m x 2.25 m
	Budgetary allocation (Capital cost) :	Rs 6.25 Lakh
	Budgetary allocation (O & M cost) :	Rs.0.75 Lakh/Year
	Details of UGT tanks if any :	Residential: Utility Water tank Capacity: 181.58 m3 Flushing tank capacity: 107.50 m3 Fire UG tank Capacity: 150.00 m3 Amenity: Utility Water tank Capacity: 26.79 m3 Flushing tank capacity: 24.68 m3 Fire UG tank Capacity: 50.00 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	21048.75 m3 per year
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	Residential=163.42 m3/day, Amenity= 28.18 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. 300KLD
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	Rs 63 Lakh
	Budgetary allocation (O & M cost):	Rs 9.25 Lakh/Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 Kg/day
	Disposal of the construction waste debris:	Use for Leveling
Waste generation in the operation Phase:	**Dry waste:**	Residential= 269 Kg/day, Amenity= 55.2 Kg/day
	Wet waste:	Residential= 403.5 Kg/day, Amenity= 36.8 Kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	17.23kg/day (100% dry)
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	SWACH
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	75.00 m2
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.14.75 Lakh
	O & M cost:	Rs.3.18 Lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set (Residential)-160KVA-1No	HSD-38.3 litres/Hr	S-1	6.53 m	-	-
2	DG Set (Amenity)-50KVA-1 No	HSD-11.3 litres/Hr	S-2	5.41 m	To be provided	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not Applicable	49.6 Lit/Hr	49.6 Litres/Hr
41.Source of Fuel		Bharat Petroleum Corporation Limited/Hindustan Petroleum		

42.Mode of Transportation of fuel to site	By Roadway

43.Green Belt Development	**Total RG area :**	1919.28 m2
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	255 Nos
	List of proposed native trees :	255 Nos
	Timeline for completion of plantation :	Mid of Construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bauhinia tomentosa	Yellow Bauhinia	14	Small tree known to have antimicrobial activity.
2	Gmellina arborea	White Teak	26	Fast growing deciduous tree.
3	Putranjiva roxburghii	Putranjiva	18	Evergreen and ornamental tree with medicinal values.
4	Azardiracta indica	Neem	16	Fast growing used for medicinal purpose and pest control.
5	Anthocephalus cadamba	Kadamba	19	It has orange flowers and attracts bees, butterflies and birds.
6	Erithrina indica	Silk Cotton Tree	16	Medium sized flowering tree.
7	Pongamia glabra	Indian Beech	06	Tree has medicinal properties.
8	Syzygium cumini	Jamun	13	Fruit bearing tree attracts birds.
9	Artocarpus heterophyllus	Jackfruit	13	Huge fruit bearing tree attracts birds.
10	Plumeria alba	White Frangipani	17	Ornamental and flowering tree.
11	Bauhinia blakeana	Hong Kong Ochid Tree	27	Evergreen and flowering tree and is a spectacular tree.
12	Cassia fistula	Bahava	7	Ornamental tree with yellow flowers.
13	Fishtail palm	Palm	6	Tall ornamental tree.
14	Nyctanthes arbor-tristis	Parijatak	12	Ornamental with fragrant flowers attracts birds and butterflies.
15	Mangifera indica	Mango	24	Evergreen with huge canopy and fruit bearing tree.
16	Tabubia rosea	Tabubia	18	Deciduous tree with spreading crown.
17	Caryota urens	Palm	03	Tall ornamental and flowering tree.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30KW
	DG set as Power back-up during construction phase	40KVA
	During Operation phase (Connected load):	1423 KW
	During Operation phase (Demand load):	1265 KVA
	Transformer:	Residential=315KVA-2 Nos, Amenity=315KVA-1Nos.
	DG set as Power back-up during operation phase:	Residential= 160KVA- 1No., Amenity= 50KVA-1No.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

• Solar Water Heating Systems Will Be Done For Bathrooms.

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

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

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

• Water Level Controllers With Timers will be Used for Water Pumps.

• To create awareness to end consumer or flat owner, for using energy efficient light fittings like CFL, T5 Lamps & LED Lights.

• Annual Savings with energy efficient equipments is 2 % To 3%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED Lamp & Fitting For Common Areas i.e. Bldg. Parking, Staircase, Passage & Terrace Floor.	19111 KWH
2	Up Lighter - Light Fitting For Landscape Area.	175.2 KWH
3	Bollard Lighter - Light Fitting For Landscape Area.	255.5 KWH
4	Street Light Fitting - Pole Light On Road Side.	3212 KWH
5	Street Light Fitting - Garden Pole.	350.4 KWH
6	Street Light on the Bldg.	1686.3 KWH
7	Energy Saving by Solar Hot Water System.	302625 KWH

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

Air	Barricating the site	Green belt will be provided
Water	-	STP will be installed & excess treated water used for landscaping & flushing.
Noise	Noise monitoring is done in once a fortnight	Traffic management plan to be prepared. Acoustically enclosed DG set will be brought & installed.
Solid waste	-	Wet waste will be treated in oWC. STP sludge will be used as manure after treatment in OWC. Dry waste will be given to SWACH.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 39.70 Lakh
	O & M cost:	Rs. 0.79 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 Environnment	Site Sanitation-mobile toilets	0.50 Lakh/Year
4	Socio-economic	Disinfection- pest control, first Aid facilities, Health check up, Creches for children, food for children, personal protective equipment	1.00 Lakh/Year

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	300 KLD	63.00 Lakh	9.25 Lakh/Year
2	RWH	-	6.25 Lakh	0.50 Lakh/Year
3	MSW	500 Kg/day	14.75 Lakh	3.18 Lakh/Year
4	Solar system	-	39.70 Lakh	0.79 Lakh/Year
5	Landscaping	-	23.00 Lakh	2.00 Lakh/Year
6	Safety Equipment	-	10.00 Lakh	2.00 Lakh/Year
7	Post EC Monitoring	-	-	2.50 Lakh/Year
8	Dry Waste Management	-	-	0.16 Lakh/Year

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	4245.7 m2
	Area per car:	29.28 m2
	Area per car:	29.28 m2
	Number of 2-Wheelers as approved by competent authority:	553
	Number of 4-Wheelers as approved by competent authority:	145
	Public Transport:	-
	Width of all Internal roads (m):	12m & 9m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	No
	Other Relevant Informations	-

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Expansion in Existing project at S.No.403/1, 403/3, 403/6, 403/7/1, 403/7/2, 406/2, 428/2, Ambadvet,Tal- Mulshi,Pune by M/s Laukik Construction Company.

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 18655 Sq. Mtrs, BUA of 30554.33 Sq. Mtrs and FSI area of 15553.75 Sq. Mtrs. PP proposes to construct 3 no. residential & amenity building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to ensure that the details of waste water from dispensary and clinic to be estimate separately and treat using advance oxidation treatment before connecting to STP .
2) PP to estimates the quantity of biomedical waste and plan for disposal along with NOC.
3) PP to submit undertaking that the clinic & dispensary are the member of society.
4) PP to submit CFO NOC.
5) PP to submit water supply NOC.
6) PP to submit details of sewer line connectivity up to final disposal point with NOC.
7) PP to submit solid and liquid waste management plan considering user of multipurpose hall and population.
8) PP to submit energy saving calculation along with terrace area calculations.
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.
10) PP to provide mandatory RG area on virgin land and submit the drawing with calculations.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Proposed Residential project 'Gagan Panama' at S.No.67/2, Kharadi, Tal-Haveli, Dist Pune by Gagan Panama buildscapes LLP, Pune

Is a Violation Case: No

1.Name of Project	Gagan Panama
2.Type of institution	Private
3.Name of Project Proponent	Mr. Gautam Ladkat
4.Name of Consultant	VK:e environmental LLP
5.Type of project	Residential project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No.67/2, Kharadi
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	Mr. Gautam Ladkat
Room Number:	Office No. 502
Floor:	Office No. 502
Building Name:	Panama house, Lunkad tower
Road/Street Name:	Plot No. 3, Viman Nagar
Locality:	Viman Nagar
City:	Pune
11.Area of the project	PMC
12.IOD/IOA/Concession/Plan Approval Number	Sanction Plan from PMC no. CC/3774/17
	IOD/IOA/Concession/Plan Approval Number: CC/3774/17
	Approved Built-up Area: 18761.55
13.Note on the initiated work (If applicable)	No work has been initiated on site.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	11500 sqm
16.Deductions	3329 sqm
17.Net Plot area	8171 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 16,981.47 sqm
	b) Non FSI area (sq. m.): 13,459.33 sqm
	c) Total BUA area (sq. m.): 30441
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 9104.63
	Approved Non FSI area (sq. m.): 9656.92
	Date of Approval: 11-04-2018
19.Total ground coverage (m2)	2414.02
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29.5 % on net plot area
21.Estimated cost of the project	970000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A with MHADA & Shops	P+14	45
2	Building C2	2P+13	40.60
3	Building F	2P+13	40.60
4	Building E	2P+13	40.60
5	Building D	2P+13	40.60

23.Number of tenants and shops	No. of tenements : 261 flats No. of shops: 5 shops
24.Number of expected residents / users	Residential Tenants: 1305 Shop Tenants: 62
25.Tenant density per hectare	Tenant density: 1134.7
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Existing width of the road is 24 m 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	No
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	118
	Recycled water - Flushing (CMD):	61
	Recycled water - Gardening (CMD):	8
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	187
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	98
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	118
	Recycled water - Flushing (CMD):	61
	Recycled water - Gardening (CMD):	8
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	179
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	107
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15 - 18 m bgl
	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 :	1.5mX1.5mX 2.5m depth with 40m deep bore well
	Budgetary allocation (Capital cost) :	7,83,600/-
	Budgetary allocation (O & M cost) :	23,500/-
	Details of UGT tanks if any :	Domestic UG Tank Capacity: 178 KLD Flushing UG Tank Capacity: 91 KLD Fire UG Tank Capacity: 150 KLD.
35.Storm water drainage	**Natural water drainage pattern:**	All the storm water collected will be channelized through the storm water network and rainwater harvesting system.
	Quantity of storm water:	6.50 m3/min
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	167 kld
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. of 170 kld capacity
	Location & area of the STP:	on ground
	Budgetary allocation (Capital cost):	56,50,000/-
	Budgetary allocation (O & M cost):	09,50,000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total waste generation from labours is 10 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:**	270 kg/day.
	Wet waste:	398 kg/day.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	56 kg/day
	Others if any:	E waste: 2 kg/day

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handed over to authorized vendor.
	Wet waste:	Will be treated in Organic waste composter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	will be used as manuure
	Others if any:	E waste will be handed over to authorized vendor
Area requirement:	**Location(s):**	on ground
	Area for the storage of waste & other material:	Total OWC area: 60 sqm
	Area for machinery:	Total OWC area: 60 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	14,75,000/-
	O & M cost:	312167/-

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 :**	Opens space: 961.29 sqm
	No of trees to be cut :	3
	Number of trees to be planted :	121
	List of proposed native trees :	Please refer below list
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygium cumini	Jambul tree	5	A large tree with dense foliage provides shade along roads, wood is water resistant and attracts a variety of birds.
2	Millingtonia hortensis	Indian cork tree	10	A columnar, evergreen tree, grows well in both dry and moist regions
3	Lagerstromia flos regineae	Tamhan	13	State flower tree of Maharashtra Medium size tree, beautiful purple flowers, grows well in both dry and humid climate
4	Pongamia pinnata	Karanj	10	Large tree good for stopping soil erosion along canal banks
5	Azadirachta indica	Neem	10	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	10	A medium to large size hardy tree which stand in drought conditions. Air Purifying quality Attain a much larger size in dry regions.
7	Ficus benjamina	Weeping Fig	10	Medium sized evergreen tree with elegant appearance and moderate water requirement
8	Plumeria alba	Champa	6	Ornamental flowering tree
9	Michelia champaca	Sonchafa	11	Medium size evergreen tree, fragrant yellow flower, butterfly host plant
10	Polyathia longifolia	Ashoka	04	Large evergreen tree, Effective in decreasing noise pollution.
11	Mangifera indica	Mango	10	Large evergreen and fruit bearing tree
12	Albizia lebeck	Shirish	08	Shady, large tree, ball shaped flowers
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Raphis palm	0.60	29.89

2	Allamanda yellow	0.45	29.20
3	Asparagus sprengeri	0.30	13.25
4	Ixora red	0.30	24.48

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	60 KW
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	1447 kW
	During Operation phase (Demand load):	964 kW
	Transformer:	2 nos. of 630 KVA
	DG set as Power back-up during operation phase:	1 no. Of 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

By Using Automatic time based controls/timers
By Using LED fixtures
By Using Solar Hot water systems and solar PV

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Using Solar Hot water systems	100 lit/flat/day
2	Using Solar PV	8.6 KWh/day

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1,26,90,000/-
	O & M cost:	10,15,200 /-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	1135750
2	Land	Labour Camp toilets & sanitation	240000
3	Health & Safety	Labour Safety Equipments and training	2,00,000
4	Environment	Environmental Monitoring	1,85,600
5	Health & Safety	Disinfection and Health Check-ups	25500
6	Environment Managment	Environmental Monitoring cell	170000

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	1 STP	56,50,000/-	09,50,000/-
2	Solid waste management	1 OWC	20,75,000/-	4,77,075/-
3	Landscaping	development & maintenance of green area	7,83,600/-	23,500/-
4	Rain water harvesting	4 recharge pits	2,95,202.25 /-	31,764 /-
5	Environmental Monitoring	air,water,noise,soil,waste water,OWC mannure	NA	1,82,500/-
6	Renewable energy	Solar Hot Water System, Solar PV	1,26,90,000/-	10,15,200 /-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The road network within the site has been designed to cater to the traffic loads of the project. Internal driveways are 6 m wide. Existing access road is 24 m wide.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	1 podium
	Total Parking area:	5417 sqm
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	490
	Number of 4-Wheelers as approved by competent authority:	245
	Public Transport:	NA
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Building & construction
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Residential project 'Gagan Panama' at S.No.67/2, Kharadi, Tal-Haveli, Dist Pune by M/s.Gagan Panama buildscapes LLP.

PP submitted their application for prior Environmental clearance for total plot area of 11500 Sq. Mtrs, BUA of 30441 Sq. Mtrs and FSI area of 16981.47 Sq. Mtrs. PP proposes to construct 5 no. residential building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit details of socioeconomic infrastructure in project vicinity especially pre-primary school, & market.
2) PP to submit revised geohydrological report.
3) PP to submit CFO NOC.
4) PP to submit details of SWD up to final disposal point.
5) PP to submit revised drawing for STP & OWC.
6) PP to remove depend parking and revise the plan of lower ground and upper ground.
7) PP to submit cross section of ramp showing Slope & width.
8) PP to submit revised parking statement.
9) PP to submit energy saving calculation along with terrace area calculations.
10) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Building Construction Project

Is a Violation Case: No

1.Name of Project	Proposed Residential Project
2.Type of institution	Private
3.Name of Project Proponent	Mrs. Ranjana Rohidas Tupe
4.Name of Consultant	Mr. Rajesh Shrivastava PECS- Pollution & Ecology control Services
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S No 174 H No 4/1 & S No 174 H No 4/2
9.Taluka	Haveli
10.Village	Hadapsar
Correspondence Name:	Mrs. Ranjana Rohidas Tupe
Room Number:	Plot no. 80 & 81
Floor:	-
Building Name:	Sadhana Housing Society
Road/Street Name:	Near Aakashwani
Locality:	Hadapsar
City:	Pune
11.Area of the project	Corporation Area
12.IOD/IOA/Concession/Plan Approval Number	Plan Sanctioned by PMRDA
	IOD/IOA/Concession/Plan Approval Number: BHA/CR No 143/17-18/ Mouza Hadapsar/ S No 174 H No 4/1 & S No 174 H No 4/2
	Approved Built-up Area: 12209.40
13.Note on the initiated work (If applicable)	No work is initiated as on date
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	13300 Sqm
16.Deductions	0 Sqm
17.Net Plot area	13300 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 14189.69
	b) Non FSI area (sq. m.): 7979.6
	c) Total BUA area (sq. m.): 22169.29
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 12203.52
	Approved Non FSI area (sq. m.): 6701.52
	Date of Approval: 03-05-2017
19.Total ground coverage (m2)	2381.3
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	17.91 %
21.Estimated cost of the project	288200770

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	P+7	23.3
2	B	P+7	23.3
3	C	P+7	23.3
4	D	P+11	34.9
5	E	P+11	34.9

23.Number of tenants and shops	No. of Tenements= 172 No. of Shops= 2 Multipurpose Hall, 2 Dispensaries, 2 Gym
24.Number of expected residents / users	Residential Users=
25.Tenant density per hectare	130 tenement/ hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6 m
29.Existing structure (s) if any	No existing structures as on date
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	84.04
	Recycled water - Flushing (CMD):	47.0
	Recycled water - Gardening (CMD):	7.98
	Swimming pool make up (Cum):	0.0
	Total Water Requirement (CMD) :	139.02
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	76.06
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	84.04
	Recycled water - Flushing (CMD):	47.0
	Recycled water - Gardening (CMD):	0.0
	Swimming pool make up (Cum):	0.0
	Total Water Requirement (CMD) :	131.04
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	84.04
Details of Swimming pool (If any)	Not proposed	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15 m BGL
	Size and no of RWH tank(s) and Quantity:	Harvesting proposed in Recycled Water Tank with filtration
	Location of the RWH tank(s):	Collected in Raw water tank.
	Quantity of recharge pits:	3 Nos
	Size of recharge pits :	2m x 2m x 3m
	Budgetary allocation (Capital cost) :	Rs. 1.95 lacs
	Budgetary allocation (O & M cost) :	Rs. 0.08 Lacs/annum
	Details of UGT tanks if any :	Residential UGT= 176.1 Cum Commercial UGT= 44.0 Cum Fire UGT= 250 Cum
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	4572.45 Cum
	Size of SWD:	450 mm & 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	Residential sewage= 116.1 KLD Sewage from Amenity Building= 14.94 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	122 KLD= 1 Nos 16 KLD = 1 Nos
	Location & area of the STP:	Shown on plan
	Budgetary allocation (Capital cost):	Rs. 19.0 Lacs
	Budgetary allocation (O & M cost):	Rs. 2.09 Lacs/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	2.5 Kg/day
	Disposal of the construction waste debris:	To be disposed through authorized agency & recyclers
Waste generation in the operation Phase:	**Dry waste:**	205.2 Kg/day
	Wet waste:	287.02 Kg/day
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	12.42 kg/day
	Others if any:	Na

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized agency
	Wet waste:	In-Situ Composting
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	In- Situ Composting
	Others if any:	NA
Area requirement:	**Location(s):**	Shown on plan
	Area for the storage of waste & other material:	34 Sqm
	Area for machinery:	Considered in above area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 6.06 Lacs
	O & M cost:	Rs. 2 Lacs/Annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1330 Sqm
	No of trees to be cut :	Nil
	Number of trees to be planted :	94 Nos
	List of proposed native trees :	Listed below
	Timeline for completion of plantation :	Before completion of the project

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

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

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

Serial Number	Name	C/C Distance	Area m2

1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	20 KW
	DG set as Power back-up during construction phase	25 KVA
	During Operation phase (Connected load):	1238 KW
	During Operation phase (Demand load):	632 KVA
	Transformer:	630 KVA- 1 No
	DG set as Power back-up during operation phase:	160 KVA- 1 No
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV + solar water heater + solar street lights+ LED in common area	10% saving

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.17.37 Lacs
	O & M cost:	Rs. 0.87 Lacs/Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for construction & Labour	Water requirement	0.92

2	Site Sanitation & Safety	Health & Safety	1.60
3	Environmental Monitoring	Pollution Monitoring & Control	1.80
4	Disinfection	Health & Safety	0.50
5	Health Check up	Health & Safety	0.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH pits	1.95	0.08
2	Sewage Treatment Plant	Waste water management	19.0	2.09
3	Organic Waste Composting	Solid waste management	6.06	2.0
4	Tree Plantation	Landscape Development	7.98	0.40
5	Energy saving	Energy Conservation	17.37	0.87
6	Environment Monitoring	Pollution control	0.0	1.80

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 No.

Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Nil
	Total Parking area:	2378.8 Sqm
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	344 Nos
	Number of 4-Wheelers as approved by competent authority:	116 Nos
	Public Transport:	Nil
	Width of all Internal roads (m):	Min 6 M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Building Construction Project at S No 174 H No 4/1 & S No 174 H No 4/2 Hadapsar Pune by Mr.Ranjana rohidas tupe.

PP submitted their application for prior Environmental clearance for total plot area of 13300 Sq. Mtrs, BUA of 22169.29 Sq. Mtrs and FSI area of 14189.69 Sq. Mtrs. PP proposes to construct 5 no. residential building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit undertaking for sustainable water supply.
2) PP to submit NOC for laying sewer line across the 12 m wide road.
3) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Construction of Hotel Building at plot Survey No-289/2, CTS No-5729(pt), Village Pathardi Shiwar, District Nashik, By Rahul and Pranav Hospitalities LLP

Is a Violation Case: No

1.Name of Project	Construction of "Rahul and Pranav Hospitalities LLP Hotel" building project at plot Survey No-289/2, CTS No-5729(pt), Village Pathardi Shiwar, and District Nashik.
2.Type of institution	Private
3.Name of Project Proponent	RAHUL & PRANAV HOSPITALITIES LLP
4.Name of Consultant	Enviro Analysts and Engineers Pvt Ltd
5.Type of project	Construction of Hotel Building
6.New project/expansion in existing project/modernization/diversification in existing project	NEW PROJECT
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	PLOT SURVEY NO. 289/2, CTS NO - 5729,Village Pathardi Shiwar, Tehsil Nashik,District Nashik Maharashtra.
9.Taluka	NASHIK
10.Village	Pathardi Shiwar
Correspondence Name:	RAHUL & PRANAV HOSPITALITIES LLP
Room Number:	131/B
Floor:	Suite 217
Building Name:	THE MIRADOR
Road/Street Name:	New Link Road
Locality:	Chakala, Andheri East
City:	Mumbai
11.Area of the project	NASHIK MUNICIPAL CORPORATION
12.IOD/IOA/Concession/Plan Approval Number	COMMENCEMENT CERTIFICATE RECEIVED.
	IOD/IOA/Concession/Plan Approval Number: LND/BP/B5/268/5306 dated 31/12/2016
	Approved Built-up Area: 7906.8
13.Note on the initiated work (If applicable)	2 Basements and ground floor completed.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NOT APPLICABLE
15.Total Plot Area (sq. m.)	9510.0
16.Deductions	1558.50
17.Net Plot area	7951.50
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 21628.01
	b) Non FSI area (sq. m.): 17769.11
	c) Total BUA area (sq. m.): 39397.12
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 7906.8
	Approved Non FSI area (sq. m.): -
	Date of Approval: 31-12-2017
19.Total ground coverage (m2)	4026.28
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	42.33
21.Estimated cost of the project	910000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	HOTEL BUILDING	2 Basements + GROUND +Service Floor+ 9 UPPER FLOORS	43.37

23.Number of tenants and shops	222 Rooms
24.Number of expected residents / users	300
25.Tenant density per hectare	347
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.00 M WIDE D.P. ROAD
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.0 M
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	NASHIK MUNICIPAL CORPORATION
	Fresh water (CMD):	144
	Recycled water - Flushing (CMD):	25
	Recycled water - Gardening (CMD):	7
	Swimming pool make up (Cum):	15
	Total Water Requirement (CMD) :	191
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	16
Wet season:	**Source of water**	NASHIK MUNICIPAL CORPORATION
	Fresh water (CMD):	144
	Recycled water - Flushing (CMD):	25
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	15
	Total Water Requirement (CMD) :	298
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	23
Details of Swimming pool (If any)	Makeup Water Requirement for swimming Pool = 15 m3 Pool Volume = 275 m3	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	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:**	1M - 4M
	Size and no of RWH tank(s) and Quantity:	RWH Tank :1, Capacity : 65 CUM
	Location of the RWH tank(s):	1st Basement
	Quantity of recharge pits:	1 NO.
	Size of recharge pits :	Dimensions: 3.14m X 2.69m X 1.1m
	Budgetary allocation (Capital cost) :	20 Lakh
	Budgetary allocation (O & M cost) :	2 Lakh
	Details of UGT tanks if any :	2ND BASEMENT
35.Storm water drainage	**Natural water drainage pattern:**	west to east
	Quantity of storm water:	0.03 m3/sec
	Size of SWD:	1m x 1.8m
Sewage and Waste water	**Sewage generation in KLD:**	157
	STP technology:	MBBR
	Capacity of STP (CMD):	STP 1 No. Capacity: 160 KLD
	Location & area of the STP:	Ground Floor
	Budgetary allocation (Capital cost):	50 LACS
	Budgetary allocation (O & M cost):	5 LACS
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	-
	Disposal of the construction waste debris:	-
Waste generation in the operation Phase:	**Dry waste:**	1132 Kg/ Day
	Wet waste:	766 Kg/Day
	Hazardous waste:	NOT APPLICABLE
	Biomedical waste (If applicable):	NOT APPLICABLE
	STP Sludge (Dry sludge):	3KG/DAY
	Others if any:	NOT APPLICABLE

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to local recyclers.
	Wet waste:	Processed in OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge will be used as manure.
	Others if any:	NOT APPLICABLE
Area requirement:	**Location(s):**	Ground Floor
	Area for the storage of waste & other material:	35.84 Sq m
	Area for machinery:	Including area of Machinery
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20 LACS
	O & M cost:	2 LACS

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		7 KLD			
Capacity of the ETP:		8 KLD			
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 :**	951 Sq m
	No of trees to be cut :	NA
	Number of trees to be planted :	120
	List of proposed native trees :	As below
	Timeline for completion of plantation :	As soon as construction work completed.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Arthocarpus heterophyllus	Jackfruit	11	-
2	Bauhinia variegata	Orchid Tree	9	-
3	Drypetes roxburghii	Jiyapotha	9	-
4	Ficus elastica	Rubber Tree	8	-
5	Mangifera indica	Mango	7	-
6	Mimusops elengi	Cherry	32	-
7	Ochna obtusata	Ramdhan Champa	9	-
8	Cocas nucifera	Coconut Palm	32	-
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	NOT APPLICABLE	0	0

47.Energy

Power requirement:	**Source of power supply :**	MAHARASHTRA STATE ELECTRICITY BOARD
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	1 no x 200 KVA
	During Operation phase (Connected load):	3081 kW
	During Operation phase (Demand load):	1493 kW
	Transformer:	NA
	DG set as Power back-up during operation phase:	2 X 750 kVA and 1 X 500 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

-

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saving of project	5.44 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18 LACS
	O & M cost:	1.80 LACS

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water for dust suppression	2.0
2	EHS	Site Sanitation	2.0
3	Environmental Monitoring	Environmental Monitoring	15.0
4	EHS	Disinfection	1.5
5	EHS	Health Check Up	1.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	Sewage Treatment Plant	20	2
2	Water Environment	Rain Water harvesting	20	2
3	Energy	Solar System	50	5
4	Solid waste Manangement	Organic waste Converter	18	1.8
5	Land Environment	Landscaping	3	0.3

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	2 NOS
	Number and area of podia:	NA
	Total Parking area:	9965.55 Sq m
	Area per car:	37.25
	Area per car:	37.25
	Number of 2-Wheelers as approved by competent authority:	540 Nos
	Number of 4-Wheelers as approved by competent authority:	Big Car :101 Nos, Small Car:149 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	9.75 M
	CRZ/ RRZ clearance obtain, if any:	NA

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Construction of Hotel Building at plot Survey No-289/2, CTS No-5729(pt), Village Pathardi Shiwar, District Nashik, By M/s. Rahul and Pranav Hospitalities LLP.

PP submitted their application for prior Environmental clearance for total plot area of 9510.0 Sq. Mtrs, BUA of 39397.12 Sq. Mtrs and FSI area of 21628.01 Sq. Mtrs. PP proposes to construct 1 no. hotel building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit NOC,s for water supply, drainage, solid waste mgt.
2) PP to submit debris management plan with excess earth disposal details & NOC.
3) PP to redesign the STP considering wet level to be 1.5 m above the plinth level also oil and grease particle coming to inlet.
4) PP to submit environmental status report and audit report vetted by Govt.Agency.
5) PP to submit plan for connection of excess treated water.
6) PP to submit cross section 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.
7) PP to submit energy saving calculation along with terrace area calculations.
8) 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.
9) PP to submit revised EMP following ISO norms.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Project "Vrindavan Heights" at S.no. 183/3+183/4+183/5A+183/5B+183/7 Mouje Hadapsar, Taluka Haveli, District Pune, by M/s. Kwality World Developers

Is a Violation Case: No

1.Name of Project	Project "Vrindavan Heights" at S.no. 183/3+183/4+183/5A+183/5B+183/7 Mouje Hadapsar, Taluka Haveli, District Pune, by M/s. Kwality World Developers
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sanket Tupe
4.Name of Consultant	VK:e environmental LLP , Pune
5.Type of project	Residential and Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	s.no. 183/3+183/4+183/5A+183/5B+183/7 Mouje Hadapsar, Taluka Haveli, District Pune
9.Taluka	Haveli
10.Village	Hadapsar
Correspondence Name:	Mr. Sanket Tupe
Room Number:	NA
Floor:	NA
Building Name:	A building
Road/Street Name:	Survey No. 183, Sadesatranali Road
Locality:	Hadapsar
City:	Pune
11.Area of the project	PMC
12.IOD/IOA/Concession/Plan Approval Number	Sanction Received
	IOD/IOA/Concession/Plan Approval Number: Layout Sanctioned -CC/0053/18, B) Building Sanctioned- CC/0021/18
	Approved Built-up Area: 12835
13.Note on the initiated work (If applicable)	Wing A exists on site as per sanction received
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	13250
16.Deductions	1336.52
17.Net Plot area	10081.15
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 16071.14
	b) Non FSI area (sq. m.): 15907.68
	c) Total BUA area (sq. m.): 31978.81
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 12835
	Approved Non FSI area (sq. m.): 15907.68
	Date of Approval: 06-04-2018
19.Total ground coverage (m2)	1927.39
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.98%
21.Estimated cost of the project	494100000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	P+12	37.95
2	Wing B	Basement + Ground parking + podium parking+ stilt floor + 12 floors	42.30
3	Wing C	Basement + Ground parking + podium parking+ stilt floor + 12 floors	42.30
4	Wing D	G+5 floor	18.60
5	Wing F	Ground floor	4.05

23.Number of tenants and shops	232 flats, 30 service apartments, 17 shops , 6 restaurants , 2 hall
24.Number of expected residents / users	2345 (1160 residential + 1185 commercial)
25.Tenant density per hectare	175
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 Mtr. wide (The nearest fire station –Amanora Fire Station 0.83 km)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 mtr
29.Existing structure (s) if any	Wing A exists on site as per sanction received
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	140
	Recycled water - Flushing (CMD):	76
	Recycled water - Gardening (CMD):	7
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	223
	Fire fighting - Underground water tank(CMD):	225
	Fire fighting - Overhead water tank(CMD):	20 for each building
	Excess treated water	90
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	140
	Recycled water - Flushing (CMD):	76
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	163.85
	Fire fighting - Underground water tank(CMD):	216
	Fire fighting - Overhead water tank(CMD):	20 for each building
	Excess treated water	97
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post monsoon= 4 meter bgl Pre monsoon = 7.0 meter bgl
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5 recharge pits
	Size of recharge pits :	2 m x2 m x 2 m depth Dimensions of recharge bore well 175 mm diameter depth 30 meter and depth of perforated or slotted casing 12 meter
	Budgetary allocation (Capital cost) :	Rs. 1,81,500/-
	Budgetary allocation (O & M cost) :	Rs. 25000/-per year
	Details of UGT tanks if any :	For Residential : 461 kld For Commercial: 90 kld
35.Storm water drainage	**Natural water drainage pattern:**	NA
	Quantity of storm water:	435 m3/hr
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	195 kld
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	200 kld
	Location & area of the STP:	On ground, Total Area is 88. 78 sqm
	Budgetary allocation (Capital cost):	Rs. 57,20,000/-
	Budgetary allocation (O & M cost):	Rs. 9,50,000/- year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	20 kg /day (Dry + Wet)
	Disposal of the construction waste debris:	The entire construction waste will be used within the site for leveling purposes and base course preparation of internal approach roads .
Waste generation in the operation Phase:	**Dry waste:**	410 kg/day
	Wet waste:	467 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	23 kg /day
	Others if any:	e-waste 3.2 kg/day

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorize recycler for further handling & disposal purpose
	Wet waste:	Wet waste will be treated on onsite OWC provided.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be Used as manure
	Others if any:	Handed over to authorize recycler for further handling & disposal purpose
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	48 sqm. (total)
	Area for machinery:	48 sqm. (total)
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	14,75,000/-
	O & M cost:	3,34,318/-

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	LSD	Not applicable	Not applicable	Not applicable
41.Source of Fuel		Near fuel pump		

42.Mode of Transportation of fuel to site	By Road

43.Green Belt Development	**Total RG area :**	1195 sqm
	No of trees to be cut :	NA
	Number of trees to be planted :	150 nos.
	List of proposed native trees :	Refer Below list:
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadiracta indica	Neem	17	Good for restoration of dryer parts, good for air purifier and have medicinal properties
2	Syzygium cumini	Jabhul Tree	5	A large size tree with dense foliage provides shade along roads, wood is water resistant and attract variety of birds.
3	Millingtonia hortensis	Indian Cork Tree	18	A columnar, evergreen tree grows well in both dry and moist regions
4	Ficus benjamina	Weeping fig	5	Medium sized evergreen tree with elegant appearance and moderate water requirement.
5	Pongamia pinnata	Pichkari	9	Large tree good for stopping soil erosion along canal banks
6	Lagerstroemia flos-regineae	Tamhan	14	State flower tree of Maharashtra. Medium sized tree, beautiful purple flowers, grows well in both dry and humid climate.
7	Cassia fistula	Bahava	10	Small deciduous tree. Excellent flowering tree for arid regions.
8	Erythrina indica	Pangara	17	Medium sized deciduous tree. Bright scarlet flowers.
9	Albizia lebbeck	Shirish	8	Shady, large tree, ball shaped flowers.
10	Polyathia longifolia	Ashoka	11	Large evergreen tree, effective in decreasing noise pollution.
11	Plumeria alba	Champa	19	Ornamental flowering tree.
12	Michelia champaca	Sonchapha	17	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	22 KW
	DG set as Power back-up during construction phase	30 kvA
	During Operation phase (Connected load):	1309.62 KW
	During Operation phase (Demand load):	746 kvA
	Transformer:	1 nos. x 630 kvA + 1 nos. x 315 kvA.
	DG set as Power back-up during operation phase:	1 nos. x 180 kvA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Timers and contactors will be used to switch on / off common are & external landscape and facade lighting.
2. Light Emitting Diode (LED) will be used for corridors ,Lobbies and common areas.
3. All fluorescent light fixtures are specified to incorporate electronic chokes which have less watt-loss compared to electro-magnetic chokes and result in superior operating power factor. This indirectly saves energy. Electronic chokes also improves life of the fluorescent lamps.
4. Energy efficient cfl/t5/led lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs.
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.
6. 125 Ltrs Solar water is provided for each flat .
7. Solar PV panel system is proposed for Street lighting & Building common lighting.
8. LPD of 7.5 W/sq.mtr. in Residential areas & 10.8 W/sq.mtr. in Office areas is proposed. ar Energy

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Annual Savings with energy equipment’s	25 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Solar Water Heater-39,15,000/- , Solar PV cell- 6,33,300/-
	O & M cost:	Solar Water Heater-3,91,500/- , Solar PV cell - 31,665/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Air Environment	Erosion control , Dust suppression measures , barricading and top soil preservation	14,00,000/-
2	Land	Labour camp toilets & sanitation	4,40,000/-
3	Health and Safety	Labour Safety Equipments and Training	4,00,000/-
4	Disinfection and Health Check-ups	Disinfection and Health Check-ups	66,000/-
5	Environment Management	Environmental Monitoring Cell	1 ,75,000/-
6	Environmental Monitoring	Environmental Monitoring	1,85,600/-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	STP	57,20,000/-	9,50,000/-
2	Organic waste management	OWC	14,75,000/-	3,34,318/-
3	Landscaping	Development and Maintenance	3,41,000	27,000/-
4	Rain water harvesting	recharge pits with bore	1,81,500/-	25,000/-
5	Energy	Solar Water Heater	39,15,000/-	3,91,500/-
6	Energy	Solar PV cell	6,33,300/-	31,665/-
7	Environment Monitoring	Environment Monitoring	85000/-	NA

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site about a 12 m wide road, which connects to the Road .6 m internal roads for easy access of fire tender movement are provided.

Parking details:	**Number and area of basement:**	1no & 520.91 Sq.m
	Number and area of podia:	1no & 1581.45 Sq.m
	Total Parking area:	4367.90 Sq.m
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	523
	Number of 4-Wheelers as approved by competent authority:	248
	Public Transport:	NA
	Width of all Internal roads (m):	6 m wide internal road is provided. 9 m turning radius will be provide
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8a building and construction project
	Court cases pending if any	NO
	Other Relevant Informations	Residential and Commercial Project
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Project "Vrindavan Heights" at S.no. 183/3+183/4+183/5A+183/5B+183/7 Mouje Hadapsar, Taluka Haveli, District Pune, by M/s. Kwality World Developers.

PP submitted their application for prior Environmental clearance for total plot area of 13250 Sq. Mtrs, BUA of 31978.81 Sq. Mtrs and FSI area of 16071.14 Sq. Mtrs. PP proposes to construct 5 no. residential & commercial building.

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

DECISION OF SEAC

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 an undertaking for sustainable water supply.
2) PP to submit details of socioeconomic infrastructure of project vicinity.
3) PP to submit revised fire tender movement plan and commercial area should be isolate with proper parking layout.
4) PP to provide cross sections of internal road, parking layout to be revised.
5) PP to submit parking statement as per DCR.
6) Dependent parking should be eliminated and only the required parking to be shown as per DCR.
7) PP to submit details of solid waste management plan for multipurpose hall & restaurant.
8) PP to submit energy saving calculation along with terrace area calculations.
9) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Building Construction Project

Is a Violation Case: No

1.Name of Project	Punya Pravah
2.Type of institution	Private
3.Name of Project Proponent	Mr. Amit Sunil Shah
4.Name of Consultant	Mr. Rajesh Shrivastav PECS- Pollution & Ecology Control Services
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	R.S. No.180,E- ward ,Nagala park, Kolhapur,416002
9.Taluka	Karveer
10.Village	-
Correspondence Name:	Mr. Amit Sunil Shah
Room Number:	R. S. No. 180, E - Ward
Floor:	-
Building Name:	-
Road/Street Name:	E- Ward
Locality:	Nagala Park
City:	Kolhapur
11.Area of the project	Corporation Area
12.IOD/IOA/Concession/Plan Approval Number	Kolhapur Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: CC/0358/2017
	Approved Built-up Area: 9466.54
13.Note on the initiated work (If applicable)	Work initiated as per previous sanction
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	7180 Sqm
16.Deductions	74.30 Sqm
17.Net Plot area	7105.70 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 10931.68
	b) Non FSI area (sq. m.): 10227.82
	c) Total BUA area (sq. m.): 21159.4
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 10931.68
	Approved Non FSI area (sq. m.): 10227.82
	Date of Approval: 01-08-2017
19.Total ground coverage (m2)	3068.73
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	43.18 %
21.Estimated cost of the project	410000000

22.Number of buildings & its configuration

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

1	HR-1	S+7	24.0
2	HR-2	S+7	24.0
3	HR-3	S+9	30.0

23.Number of tenants and shops	No. of Tenements- 130 Nos No.of Shops-NIL
24.Number of expected residents / users	Residential Users- 650 Nos Commercial Users- NIL
25.Tenant density per hectare	183 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 wide approach road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 M
29.Existing structure (s) if any	Yes. As per previous sanction
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**	KMC
	Fresh water (CMD):	58.5
	Recycled water - Flushing (CMD):	29.25
	Recycled water - Gardening (CMD):	7.1
	Swimming pool make up (Cum):	0.0
	Total Water Requirement (CMD) :	94.85
	Fire fighting - Underground water tank(CMD):	175.0
	Fire fighting - Overhead water tank(CMD):	75.0
	Excess treated water	51.4
Wet season:	**Source of water**	KMC
	Fresh water (CMD):	58.5
	Recycled water - Flushing (CMD):	29.25
	Recycled water - Gardening (CMD):	0.0
	Swimming pool make up (Cum):	0.0
	Total Water Requirement (CMD) :	87.75
	Fire fighting - Underground water tank(CMD):	175.0
	Fire fighting - Overhead water tank(CMD):	75.0
	Excess treated water	58.5
Details of Swimming pool (If any)	Not Proposed	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10 M BGL
	Size and no of RWH tank(s) and Quantity:	Harvesting proposed in Recycled Water Tank with filtration
	Location of the RWH tank(s):	Collected in Raw water tank
	Quantity of recharge pits:	2 No. of pits proposed
	Size of recharge pits :	2m x 2m x 3m - 1No & 1.5m x 1.5m x 1.5m - 1 No
	Budgetary allocation (Capital cost) :	Rs. 1.30 lacs
	Budgetary allocation (O & M cost) :	Rs. 0.06 Lacs
	Details of UGT tanks if any :	UGT of Total Capacity - 356.7 cum
35.Storm water drainage	**Natural water drainage pattern:**	Towards Northwest
	Quantity of storm water:	2371.95 Cum/yr
	Size of SWD:	450 mm to 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	87.75 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	90 KLD- 1 No
	Location & area of the STP:	Shown on plan
	Budgetary allocation (Capital cost):	Rs.13 Lacs
	Budgetary allocation (O & M cost):	Rs. 1.43 Lacs/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 Kg/day
	Disposal of the construction waste debris:	Handed over to authorized agency
Waste generation in the operation Phase:	**Dry waste:**	130 Kg/day
	Wet waste:	203.37 Kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	8.37 Kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed over to Authorized agency
	Wet waste:	In- situ composting
	Hazardous waste:	If generated, handed over to authorized agency
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	In-situ Composting
	Others if any:	NA
Area requirement:	**Location(s):**	Shown on plan
	Area for the storage of waste & other material:	22 Sqm
	Area for machinery:	Considered in above area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 4.3 Lacs
	O & M cost:	Rs. 1.0 Lacs/Annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	1182.82 Sqm
	No of trees to be cut :	Nil
	Number of trees to be planted :	No. of trees as per DC rule- 89 Nos. Existing Trees- 62 No. of trees proposed- 27
	List of proposed native trees :	List given below
	Timeline for completion of plantation :	Before Completion of the project

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

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

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	30 KVA
	During Operation phase (Connected load):	1321 KW
	During Operation phase (Demand load):	573 KW
	Transformer:	630 KVA
	DG set as Power back-up during operation phase:	125 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Auto Timer control for external & Common lighting
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	0.36 %
2	Timer Logic Controller	1.23 %
3	Electronic V3F drive for Lifts	0.43 %
4	Solar Water Heater	5.60 %

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. 22.76 Lacs
	O & M cost:	Rs. 11.15 Lacs/ Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for construction & Labour	Water requirement for construction activity & labour	1.06

2	Site Sanitation & Safety	Health & safety of labour	1.60
3	Environmental Monitoring	Pollution monitoring	1.80
4	Disinfection	Health & safety of labours	0.5
5	Health Check up	Health & Safety of labours	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH Pits & maintenence	1.30	0.06
2	Sewage Treatment Plant	Waste water treatment	13.0	1.43
3	Organic Waste Composting	Biodegradable waste management	4.3	1.0
4	Tree Plantation	Landscape development & management	5.91	0.30
5	Energy saving	Energy saving measures	22.76	11.15
6	Environment Monitoring	Pollution monitoring & control	0.0	1.80

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	NIL
	Total Parking area:	1484.8 Sqm
	Area per car:	13.75 Sqm
	Area per car:	13.75 Sqm
	Number of 2-Wheelers as approved by competent authority:	143 Nos
	Number of 4-Wheelers as approved by competent authority:	72 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	Minimum 6 M wide internal roads
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Na
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Building Construction Project at R.S. No.180,E- ward ,Nagala park, Kolhapur, Punya Pravah by Mr. Amit Sunil Shah.

PP submitted their application for prior Environmental clearance for total plot area of 7180 Sq. Mtrs, BUA of 21159.4 Sq. Mtrs and FSI area of 10931.68 Sq. Mtrs. PP proposes to construct 3 no. residential building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit performance report of STP.
2) 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.
3) PP to submit letter from KMC authorising dry waste collection .

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3

SEAC Meeting number: 70 **Meeting Date** September 6, 2018

Subject: Environment Clearance for Proposed Expansion of Special Economic Zone Complex at Sr. No. 203, 204p, 205, & 213, Hadapsar, Dist: Pune, State: Maharashtra for Serum Bio-Pharma Park

Is a Violation Case: No

1.Name of Project	Proposed Expansion of Special Economic Zone Complex at Sr. No. 203, 204 p, 205, & 213, Hadapsar, Dist: Pune, State: Maharashtra for Serum Bio-Pharma Park
2.Type of institution	Private
3.Name of Project Proponent	P. C. Nambiar
4.Name of Consultant	MITCON Consultancy & Engineering Services Ltd.
5.Type of project	SEZ
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in Existing Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	203, 204 p, 205, & 213
9.Taluka	Haveli
10.Village	Hadapsar
Correspondence Name:	P. C. Nambiar
Room Number:	Plot No. 212/2
Floor:	NA
Building Name:	NA
Road/Street Name:	Off Soli Poonawalla Road
Locality:	Hadapsar
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: MIDC/RO(II)/Pune/SPA/3682/2015
	Approved Built-up Area: 180395.64
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.)	124136.00
16.Deductions	Nil
17.Net Plot area	124136.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 138396.15
	b) Non FSI area (sq. m.): 41999.49
	c) Total BUA area (sq. m.): 180395.64
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 138396.15
	Approved Non FSI area (sq. m.): 41999.49
	Date of Approval: 10-08-2015
19.Total ground coverage (m2)	38981.60
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	31.4 %
21.Estimated cost of the project	900000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	SEZ 3 (Existing)	G+2	23.56
2	WTP 1 (Existing)	Ground Floor	5.10
3	SEZ 1A (Existing)	G+2	20.20
4	SEZ 1B (Existing)	G+2	19.60
5	SEZ 1C (Existing)	G+2	20.20
6	BRIQUETTE BOILER HOUSE (Existing)	Ground Floor	13.45
7	SEZ 4 (Existing)	G+2	22.98
8	SEZ 5 (Existing)	G+2	24.70
9	SEZ 6 (Existing)	G+2	25.10
10	SEZ 7 (Existing)	G+2	24.915
11	SEZ 8 (Existing)	G+2	23.08
12	SEZ 9 (Existing)	G+2	24.30
13	WTP 2 (Existing)	Ground Floor	9.80
14	ETP AIR BLOWER ROOM (Existing)	G+1	9.50
15	ETP BIO REACTORS (Existing)	Ground Floor	5.00
16	OZONE PLANT & ETP LAB (Existing)	G+1	8.00
17	ETP CENTRIFUGE SHED (Existing)	G+1	7.20
18	UGWT & PUMP ROOM (Existing)	Underground	-4.50
19	BRIQUETTE BOILER EXTENSION (Existing)	Ground Floor	5.175
20	EXTENSION SEZ- 4 & 5 (Existing)	Ground Floor	5.14
21	EXTENSION SEZ -5 & 6 (Existing)	Ground Floor	10.006
22	NEW COLD ROOM (Existing)	Ground Floor	13.97
23	PUMP HOUSE (Existing)	Ground Floor	4.10
24	SEZ 2 (Existing)	Ground Floor	12.98
25	CUSTOM OFFICE (Existing)	Ground Floor	6.73
26	SEZ-1B TERRACE (Existing)	Ground Floor	23.16
27	SEZ-1C TERRACE (Existing)	Ground Floor	25.14
28	SEZ-7 COLD ROOM (Existing)	Ground Floor	12.5
29	SEZ 10 (Proposed)	G+3	32.4
30	SEZ 11 (Proposed)	G+3	25.5
31	SOLVENT GODOWN (Proposed)	Ground Floor	6.0
32	LDO/FO (Proposed)	Ground Floor	6.0
33	NONHYDROCARBON (Proposed)	Ground Floor	6.0
34	CRUSHING SHED (Proposed)	Ground Floor	6.0
35	OTHER GAS (Proposed)	Ground Floor	6.0
36	BOILER SHED (Proposed)	Ground Floor	17.7
37	STP SHED (Proposed)	Ground Floor	6.0
38	LPG (Proposed)	Ground Floor	6.0

23.Number of tenants and shops	NA
24.Number of expected residents / users	Existing = 2665, Proposed = 850, Total = 3515
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 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12 m
29.Existing structure (s) if any	SEZ-3, WTP 1, SEZ 1A, SEZ 1B, SEZ 1C, BRIQUETTE BOILER HOUSE, SEZ 4, SEZ 5, SEZ 6, SEZ 7, SEZ 8, SEZ 9, WTP 2, ETP AIR BLOWER ROOM, ETP BIO REACTORS, OZONE PLANT & ETP LAB, ETP CENTRIFUGE SHED, UGWT & PUMP ROOM, BRIQUETTE BOILER EXTENSION EXTENSION, SEZ-4 & 5, EXTENSION SEZ-5 & 6, NEW COLD ROOM, PUMP HOUSE, SEZ-2, CUSTOM OFFICE, SEZ-1B TERREACE, SEZ-1C TERREACE, SEZ-7 COLD ROOM
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	Bacterial Vaccines	5.6 Lac Ampoules/PFS per day	Not applicable	5.6 Lac Ampoules/PFS per day
2	Viral/hepatitis B Vaccines	5.6 Lac Ampoules/PFS per day	Not applicable	5.6 Lac Ampoules/PFS per day
3	Loan License pharma products	4.0 Lac Ampoules/PFS per day	Not applicable	4.0 Lac Ampoules/PFS per day

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	2411.0
	Recycled water - Flushing (CMD):	0.0
	Recycled water - Gardening (CMD):	32.0
	Swimming pool make up (Cum):	0.0
	Total Water Requirement (CMD) :	2443.0
	Fire fighting - Underground water tank(CMD):	1500.0
	Fire fighting - Overhead water tank(CMD):	0.0
	Excess treated water	875.6
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	2379.0
	Recycled water - Flushing (CMD):	0.0
	Recycled water - Gardening (CMD):	0.0
	Swimming pool make up (Cum):	0.0
	Total Water Requirement (CMD) :	2411
	Fire fighting - Underground water tank(CMD):	1500.0
	Fire fighting - Overhead water tank(CMD):	0.0
	Excess treated water	907.6
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	120.0	115.0	235.0	24.0	23.0	47.0	96.0	92.0	188.0
Gardening	6.0	26.0	32.0	6.0	26.0	32.0	0.0	0.0	0.0
Industrial Process	1026.0	550.0	1576.0	11.0	6.0	17.0	1015.0	544.0	1559.0
Cooling tower & thermopack	473.0	127.0	600.0	284.0	76.0	360.0	189.0	51.0	240.0

Fresh water requirement	1619.0	792.0	2411.0	162.0	79.0	241.0	0.0	0.0	0.0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-7 m BGL
	Size and no of RWH tank(s) and Quantity:	4 Nos. having 25000 lits capacity (5m x 3m x 1.7m x 3 Nos. & 4m x4m x 1.6m x 1 Nos.)
	Location of the RWH tank(s):	Near SEZ 10
	Quantity of recharge pits:	4 Nos.
	Size of recharge pits :	2m x 2m
	Budgetary allocation (Capital cost) :	2.5 Lakhs
	Budgetary allocation (O & M cost) :	0.25 Lakhs/Annum
	Details of UGT tanks if any :	1. Near SEZ 3 = 50000 Lits. 2. Near SEZ 1A = 30000 Lits. 3. Near Briquette Boiler = 2000000 Lits. 4. Near Briquette Boiler = 1500000 Lits. 5. Near SEZ 4 = 30000 Lits. 6. Near SEZ 4 = 13000 Lits.

35.Storm water drainage	**Natural water drainage pattern:**	East to West
	Quantity of storm water:	1.5 cum/s
	Size of SWD:	450 mm x 450 mm

Sewage and Waste water	**Sewage generation in KLD:**	188.0
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. Capacity = 190 KLD
	Location & area of the STP:	West side of SEZ 11
	Budgetary allocation (Capital cost):	95.0 Lakhs
	Budgetary allocation (O & M cost):	5.0 Lakhs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	0.05 MT/M
	Disposal of the construction waste debris:	Will be utilized within premises for filling & levelling
Waste generation in the operation Phase:	**Dry waste:**	29.0 MT/M
	Wet waste:	11.745 MT/M
	Hazardous waste:	54.9 MT/M
	Biomedical waste (If applicable):	Existing = 20000 Kg/M, Proposed = 500 kg/M, Total = 20500 Kg/M
	STP Sludge (Dry sludge):	90 Kg/Day
	Others if any:	Ash from briquette boiler = Existing: 10 MT/Day Proposed: 2.0 MT/Day, Biological sludge from ETP = Existing: 75.0 kg/day Proposed: 40.0 kg/day, Paper/package = 24.0 MT/M

Mode of Disposal of waste:	**Dry waste:**	Will be sold to recycler
	Wet waste:	Will be converted into manure & used for greenbelt development
	Hazardous waste:	Will be sent to CHWTSDF/Sale to authorized party
	Biomedical waste (If applicable):	Existing incinerator is used for incineration of BMW and is having sufficient capacity.
	STP Sludge (Dry sludge):	Will be used as manure or CHWTSDF
	Others if any:	Ash from briquette boiler: For recycling, Biological sludge from ETP : Used as Manure, Paper / packaging waste: Sale, Metal/wooden scrap: For recycling
Area requirement:	**Location(s):**	As mentioned in layout
	Area for the storage of waste & other material:	350 sq. m.
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	5.0 Lakhs
	O & M cost:	1.0 Lakhs/Annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.0-8.0	5.5-9.0	5.5-9.0
2	BOD	mg/l	150.0	100.0	100.0
3	COD	mg/l	300.0	250.0	250.0
4	SS	mg/l	100.0	100.0	100.0

Amount of effluent generation (CMD):	1799.0
Capacity of the ETP:	Existing ETP of 1500 CMD will be upgraded to 1800 CMD
Amount of treated effluent recycled :	1079.4 CMD
Amount of water send to the CETP:	NA/Local drainage system.
Membership of CETP (if require):	NA
Note on ETP technology to be used	Primary, Secondary and Tertiary treatment scheme will be provided.
Disposal of the ETP sludge	Biological Sludge – Used as Manure, Chemical sludge - Sent to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Incineration Ash	36.2	MT/M	40.0	Nil	40.0	CHWTSDF
2	Expired medicine	28.4	MT/M	0.5	0.2	0.7	CHWTSDF
3	Lead Acid Battery	-	Nos./M	200.0	Nil	200.0	Sale to authorized party
4	Waste oil/ Used	5.1	Kl/M	5.50	1.0	6.50	Sale to authorized party
5	Chemical sludge	35.3	MT/M	5.0	2.0	7.0	CHWTSDF

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	Boiler 5 T/hr (Existing)	LDO 295.5 Kg	1	30.5	0.8	>160 degree Celsius
2	Boiler 5 T/hr (Existing)	FO 295.5 Kg	1	33.5	0.8	>160 degree Celsius
3	Boiler 5 T/hr (Existing)	FO 315Kg	1	30.5	0.8	>160 degree Celsius
4	Boiler 5 T/hr (Existing)	FO 316 Kg	1	30.5	0.8	>160 degree Celsius
5	Boiler 5 T/hr (Existing)	FO 317 Kg	1	30.5	0.8	>160 degree Celsius
6	Boiler 5 T/hr (Existing)	FO 318 Kg	1	38.5	0.55	>160 degree Celsius
7	Boiler 10 T/hr (Existing)	FO 600 Kg	1	47	0.75	>160 degree Celsius
8	Bagasse Briquette Boiler (Existing)	Briquette	1	50	1.6	>160 degree Celsius
9	Incinerator (BMW Purpose) (Existing)	HSD 24 lit/hr	1	30	0.888	>160 degree Celsius
10	DG Set (1250 KVA x 2 Nos) (Existing)	HSD 420 lit/hr	2	22.5	0.3	>100 degree Celsius
11	DG Set (380 KVA) (Existing)	HSD 55 lit/hr	1	17.7	0.3	>100 degree Celsius
12	DG Set (1250 KVA x 2 Nos) (Existing)	HSD 420 lit/hr	2	14.5	0.3	>100 degree Celsius
13	DG Set (380 KVA) (Existing)	HSD 55 lit/hr	1	14.5	0.3	>100 degree Celsius
14	DG Set (2050 KVA x 2 nos) (Existing)	HSD 750 lit/hr	2	31	1.8	>100 degree Celsius
15	DG Set (1250 KVA x 6 Nos) (Existing)	HSD 1260 lit/hr	6	30	0.888	>100 degree Celsius
16	DG Set (2050 KVA x 2 nos) (Existing)	HSD 750 lit/hr	2	30	0.888	>100 degree Celsius
17	DG Set (380 KVA) (Existing)	HSD 55 lit/hr	1	26	0.888	>100 degree Celsius
18	Dual fire Boiler 15 T/hr (Proposed)	FO- 1.1 Kl/Hr CNG-1100 SCM/Hr	1	50	Top Diameter 850 mm	>160 degree Celsius
19	Bagasse Briquette Boiler (Proposed)	Briquette 3500 kg/hr	1	50	Top Diameter 850 mm	>160 degree Celsius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	3789 Lit/Hr	NA	3789 Lit/Hr
2	FO	2457 Kg/Hr	480 Kg/hr	2937 Kg/hr
3	CNG	NA	20000 SCM/Day	20000 SCM/Day
4	Briquette	160 T/Day	70 T/Day	230 T/Day
41.Source of Fuel		Local Vendors		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	5268.23 Sq.m.
	No of trees to be cut :	0
	Number of trees to be planted :	66
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	Within 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	Eucalyptus	Nilgiri	10	Medicinal plant
2	Saraca asoca	Sita Ashok	10	Shady tree with red-yellow flowers
3	Vachellia nilotica	Babul	10	Shady tree with yellow flowers
4	Delonix regia	Gulmohar	5	Flowering plant
5	Azadirachta indica	Neem	8	Medicinal plant
6	Albizia lebbeck	Shirish	8	Shady tree, yellowish green color & fragrance
7	Ailanthus excelsa	Maharukh	5	Large tree, good for roadside planta
8	Pongamia pinnata	Karanj	5	Shady tree
9	Butea monosperma	Palas	5	Medium sized deciduous 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)	3500 KW
	DG set as Power back-up during construction phase	3 MVA will be installed
	During Operation phase (Connected load):	5200 KW
	During Operation phase (Demand load):	1750 KW
	Transformer:	2.5 MVA * 2 Nos.
	DG set as Power back-up during operation phase:	DG set as Power back-up during operation phase : 380*2 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Wind Mill having total capacity of 141.2 MW.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of Wind Mill	69 Nos.

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Cyclone separator	Cyclone separator
Water	ETP/STP	ETP/STP
Noise	Acoustic enclosure provided for DG sets	Acoustic enclosure provided for DG sets
Solid Waste	Member of CHWTSDF/Sale to Authorized recycler	Member of CHWTSDF/Sale to Authorized recycler

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	855.31 Cr.
	O & M cost:	6.0 Cr./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	Environmental Monitoring	PM10, PM2.5, SO2, NOx, CO, Equivalent noise level	1.0
2	Air Environment	Water for Dust Suppression	0.5
3	Disinfection	Disinfection	1.0

4	Sanitation & Safety	Site Sanitation & Safety	0.2
5	Health	Health Check up	0.75

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Air, Water, Soil, Noise	-	0.5
2	Water	Rain Water Harvesting	5.0	0.25
3	Water	STP	95.0	5.0
4	Tree Plantation	Tree Plantation/Gardening/Landscape	25.0	2.0
5	Solid waste	Solid Waste Management	20.0	2.5

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:	2
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	26173.00 Sq. m.
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	224
	Number of 4-Wheelers as approved by competent authority:	2058
	Public Transport:	Local Bus Transport
	Width of all Internal roads (m):	9.0 m

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Considered under 7(c), read with 8(b) Construction project & industrial estate
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Expansion of Special Economic Zone Complex at Sr. No. 203, 204p, 205,& 213, Hadapsar, Dist: Pune, by M/s. Serum Bio-Pharma Park.

PP submitted their application for expansion in earlier Environmental clearance for total plot area of 124136 Sq. Mtrs, BUA of 180395.64 Sq. Mtrs and FSI area of 138396.15 Sq. Mtrs.

DECISION OF SEAC

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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