Agenda of 69 th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 69 **Meeting Date** August 30, 2018

Subject: Environment Clearance for construction project by M/s Garve Developments

Is a Violation Case: No

1.Name of Project	Golden Treasure
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vinayak Kishor Garve
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential & Commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	S.no 19/1/4 to 19/1/8, Kate Wasti Road
9.Taluka	Mulshi
10.Village	Punawale
Correspondence Name:	Mr. Vinayak Kishor Garve
Room Number:	S.no.136/1/A
Floor:	-
Building Name:	-
Road/Street Name:	Mumbai-Bangalore highway
Locality:	Opposite to sayaji hotel, Wakad
City:	Pune
11.Area of the project	Pimpri Chinchwad Municipal Corporation (PCMC)
12.IOD/IOA/Concession/Plan Approval Number	Yes
	IOD/IOA/Concession/Plan Approval Number: Sanctioned No. B.P./ Punawale/30/2018 Dated : 29/05/2018
	Approved Built-up Area: 33274.35
13.Note on the initiated work (If applicable)	Total Constructed Built-up Area : 27908.01m2 (FSI : 11781.90 m2+ Non-FSI :16126.11 m2)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	10080.51 m2
16.Deductions	2008.85 m2
17.Net Plot area	8071.66 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 14657.60
	b) Non FSI area (sq. m.): 18616.75
	c) Total BUA area (sq. m.): 33274.35
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 14657.60
	Approved Non FSI area (sq. m.): 18616.75
	Date of Approval: 29-05-2018
19.Total ground coverage (m2)	1828.46
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.13 % of total plot area (10080.51m2) , 22.65 % of net plot area (8071.66 m2)
21.Estimated cost of the project	800000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing - A	2P+11	38.90
2	Wing - B	2P+11	38.90
3	Wing - C	2P+11	38.90
4	Commercial	G+2	11.25

23.Number of tenants and shops	No. of Tenements: 254 Nos. Shops : 03 Nos. Offices: 06 Nos.
24.Number of expected residents / users	Residential Users: 1270 Nos. Commercial Users: 54 Nos. Total Users: 1324 Nos.
25.Tenant density per hectare	251.97
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 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**	Pimpri -Chinchwad Municipal Corporation
	Fresh water (CMD):	178.88 m3/day (One Time)
	Recycled water - Flushing (CMD):	58.50 m3/day
	Recycled water - Gardening (CMD):	5.00 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	115.38 m3/day
	Fire fighting - Underground water tank(CMD):	150.00 m3
	Fire fighting - Overhead water tank(CMD):	70.00 m3
	Excess treated water	93.00 m3/day
Wet season:	**Source of water**	Pimpri -Chinchwad Municipal Corporation
	Fresh water (CMD):	173.88 m3/day (One Time)
	Recycled water - Flushing (CMD):	58.50 m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	115.38 m3/day
	Fire fighting - Underground water tank(CMD):	150.00 m3
	Fire fighting - Overhead water tank(CMD):	70.00 m3
	Excess treated water	98.00 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 – 18.67 m to 23.33 m BGL (21.00 m BGL) , Rainy Season – 5.00 m to 12.00 m BGL (8.50 m BGL) , Winter Season – 11.84 m to 17.67 m BGL(9.76 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 :	2.00 m x 2.00 m x 2.00 m depth with 0.9 m x 0.6m x 1.0 m. De-siltation pit along with 60 m deep bore well.
	Budgetary allocation (Capital cost) :	Rs. 10.00 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.30 Lakh/year
	Details of UGT tanks if any :	Domestic UGT Capacity : 172.50 m3 Flushing UGT Capacity : 58.50 m3 Fire UGT Capacity :150.00 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	97.28 m3 /day i.e. 4864.13 m3/year
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	156.50 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	01No.-175.00 m3/day
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	Rs. 18.00 Lakh
	Budgetary allocation (O & M cost):	Rs. 9.05 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 Levelling
Waste generation in the operation Phase:	**Dry waste:**	262 kg/day
	Wet waste:	387 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	14.08 kg/day
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	Handed Over to 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:	50.00 m2
	Area for machinery:	included in other material area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 14.75 Lakh
	O & M cost:	Rs. 3.10 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 - 125 KVA	HSD-22 lit/hr.	S - 1	4.68 m	As per norms	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	-	22 lit/hr.	22 lit/hr.
41.Source of Fuel		Bharat Petroleum Corporation Limited or Hindustan Petroleum		
42.Mode of Transportation of fuel to site		By Roadway		

43.Green Belt Development	**Total RG area :**	963.56 m2
	No of trees to be cut :	-
	Number of trees to be planted :	150 Nos. (Proposed to be planted-100 Nos & already planted-50Nos)
	List of proposed native trees :	-
	Timeline for completion of plantation :	-

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Aegle marmelos	Beel	08	Medicinal Plant, Religious Plant
2	Albizia lebbeck	Shirish	08	Shady Tree, yellowish green fragrant flowers
3	Annona reticulata	Ramphal	10	Fruit Plant, Medicinal Plant
4	Anthocephallus cadamba	Kadamb	08	Shady, large tree, ball shaped flowers
5	Azadirachta Indica	Kadunimba	08	Semi Evergreen, Medicinal Plant
6	Bauhinia racemosa	Kanchan	08	Flowering Plant, Medicinal Plant
7	Cassia fistula	Bahava	08	Medium deciduous tree, yellow flowers
8	Erythrina variegata	Pangara	08	Medium deciduous tree, Bright scarlet flowers
9	Ficus elastica	Rabar	10	Medicinal Plant
10	Mangifera Indica	Aamba	08	Fruit Plant, Medicinal Plant
11	Mesua ferra	Nagkeshar	08	Flowering Plant, Medicinal Plant
12	Michelia champaka	Pivla Chafa	08	Flowering Plant, Medicinal Plant
13	Nyctanthes arbor-tristis	Parijatak	08	Fast growing tree, Flowering Plant, Medicinal Plant
14	Pongamia pinnata	Karanj	08	Ornamental Plant, Medicinal Plant, Shady tree
15	Prosopis cineraria	Shami	08	Medicinal Plant, Religious Plant
16	Saraca Indica	Sita Ashok	08	Shady tree with red-yellow flowers, Medicinal Plant
17	Syzygium cumini	Jambhul	10	Fruit Plant, Medicinal Plant
18	Tamarindus Indica	Chinch	08	Fruit Plant, Medicinal 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. (Maharashtra State Of Electricity Distribution Company Ltd.)
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	01 No. - 40 KVA
	During Operation phase (Connected load):	1370 KW
	During Operation phase (Demand load):	702 KW
	Transformer:	01No. x 630 KVA & 01 No. x 315 KVA
	DG set as Power back-up during operation phase:	01No. x 125 KVA
	Fuel used:	HSD - 22 lit/hr.
	Details of high tension line passing through the plot if any:	No

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 troposphere or LED are proposed for common area & general lighting with automatic time based control to save power by switching ON & OFF the lights at appropriate time.
- The estimated saving in common lighting consumption is up to 18.5 % due to adopting above measures.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Provision of LED light fitting Provision for common areas (parking, staircases, plant rooms etc.)	39113 KWH/Year
2	Provision of LED light fitting for landscape areas (garden &, other landscape area .)	2037 KWH/Year
3	Provision of LED lamp for SOLAR Street Light	7008 KWH/Year
4	Provision of LED light fitting Provision for Club House	2365 KWH/Year
5	Energy saving by solar water heater.	476250 KWH

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Part tree plantation is completed	Remaining green belt will be completed after construction.
Water	-	STP will be installed & excess treated water used for flushing & gardening
Noise	Noise monitoring has 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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 35.80 Lakh
	O & M cost:	Rs. 1.02 Lakh/year.

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	1.	STP	18.00	9.05
2	2.	RWH	10.00	0.30
3	3.	OWC	14.75	3.10
4	4.	Solar System	35.80	1.02
5	5.	Landscaping	9.50	0.90
6	6.	Excess treated water pumping	5.50	1.14
7	7.	Safety Equipments	10.00	2.00
8	8.	Post EC Monitoring	-	2.50
9	8.	Dry Waste Management	-	1.52

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	1 No. - Area Included in Total Parking Area
	Total Parking area:	7660.58
	Area per car:	58.92
	Area per car:	58.92
	Number of 2-Wheelers as approved by competent authority:	517
	Number of 4-Wheelers as approved by competent authority:	130
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6.00
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	Not Applicable
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-05-2015

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for construction project at S.no 19/1/4 to 19/1/8, Kate Wasti Road by M/s Garve Developments.

PP submitted their application for Expansion of Environmental clearance for total plot area of 10080.51 Sq. Mtrs, BUA of 33963.46 Sq. Mtrs and FSI area of 14688.21 Sq. Mtrs. PP proposes to construct 3 no. residential building(wings) & 1 commercial building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit revised consolidated statement considering commercial building details.
2) PP to submit undertaking for implementation of CER.

FINAL RECOMMENDATION

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

Agenda of 69 th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 69 **Meeting Date** August 30, 2018

Subject: Environment Clearance for Proposed Residential & Commercial Project

Is a Violation Case: No

1.Name of Project	Proposed Residential Project
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sandeep Shankarrao Satav , Partner
4.Name of Consultant	Pollution and Ecology Control Services, Near Dhantoli Police Station, Dhantoli, Nagpur. NABET Accredition No. 110
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	S. No. 19, Village Khadakwasla, Taluka- Haveli,Dist- Pune
9.Taluka	Haveli
10.Village	Khadakwasla
Correspondence Name:	Mr. Sandeep Shankarrao Satav
Room Number:	104
Floor:	1st
Building Name:	Sai Siddhi
Road/Street Name:	Behind Congress Bhavan
Locality:	Shivaji Nagar
City:	Pune
11.Area of the project	Other Area
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA
	IOD/IOA/Concession/Plan Approval Number: BHA/Cr. No. 1090/17-18/Mouja Khadakwasla / S. No. 19/3/3B/2A & Others dated 28/03/18
	Approved Built-up Area: 12257.55
13.Note on the initiated work (If applicable)	No Work initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	No
15.Total Plot Area (sq. m.)	11800 Sqm
16.Deductions	278.78 Sqm
17.Net Plot area	11521.22 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 14370.33
	b) Non FSI area (sq. m.): 11434.22
	c) Total BUA area (sq. m.): 25804.55
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 14020.3
	Approved Non FSI area (sq. m.): 9148.49
	Date of Approval: 28-03-2018
19.Total ground coverage (m2)	2888.02
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	26
21.Estimated cost of the project	400000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	P+P+09	30.9
2	B	P+P+08	28
3	C	P+P+07	25.1
4	D	P+P+07	25.1
5	Amenity Building	G+4	14.95
6	Club House	G+1	6.45

23.Number of tenants and shops	No. of Tenents- 231 No. of Shops- Shops of Commercial Area
24.Number of expected residents / users	Expected Residents- 1155 Expested Users- 205
25.Tenant density per hectare	201
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 M
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 M
29.Existing structure (s) if any	No
30.Details of the demolition with disposal (If applicable)	No

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Grampanchayat
	Fresh water (CMD):	104.5
	Recycled water - Flushing (CMD):	52.6
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	166.65
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	105
	Excess treated water	78.39
Wet season:	**Source of water**	Grampanchayat
	Fresh water (CMD):	104.5
	Recycled water - Flushing (CMD):	52.6
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	156.65
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	105
	Excess treated water	88.39
Details of Swimming pool (If any)	Nil	

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:**	17.5
	Size and no of RWH tank(s) and Quantity:	Not Proposed
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	8.82 cum
	Size of recharge pits :	2.1 X 2.1 X 2
	Budgetary allocation (Capital cost) :	2.60 Lac
	Budgetary allocation (O & M cost) :	0.11 Lac
	Details of UGT tanks if any :	Domestic UG Tank Capacity -194 Cum Flushing UG Tank Capacity -94 Cum Fire UG Tank Capacity -100 Cum
35.Storm water drainage	**Natural water drainage pattern:**	North East - South West
	Quantity of storm water:	5999.1
	Size of SWD:	450-600 mm
Sewage and Waste water	**Sewage generation in KLD:**	140.99
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. of 155 Cum
	Location & area of the STP:	As shown on the plan Area- 105 Sqm
	Budgetary allocation (Capital cost):	31 Lac
	Budgetary allocation (O & M cost):	3.41 Lac

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Dry waste- 2.5 Kg/Day We Waste- 2.5 Kg/Day
	Disposal of the construction waste debris:	The Construction debris shall be disposed on site as far as possible in back filling , levelling, by preserving top soil for gardening and excess shall be disposed as per the directions from the authority.
Waste generation in the operation Phase:	**Dry waste:**	265.7 Kg/Day
	Wet waste:	379.33 Kg/Day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	15.48 kg/Day
	Others if any:	NIL

Mode of Disposal of waste:	**Dry waste:**	Through Authorized Agency
	Wet waste:	In- Situ by composting
	Hazardous waste:	Through Authorized agency
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	In- Situ By Composting
	Others if any:	Through Authorized agency
Area requirement:	**Location(s):**	As shown on plan
	Area for the storage of waste & other material:	45 sqm
	Area for machinery:	Considered in above area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	8.04 Lac
	O & M cost:	2 Lac

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1152.12 Sqm
	No of trees to be cut :	0
	Number of trees to be planted :	145
	List of proposed native trees :	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	14	This Small tree has highly fragrant flowers those attract Bees and Butterflies, Fruits attract Birds.
2	Ochna obtusata	Kanak Champa	14	Native, this shrub has yellow fragrant flowers, Host plant for Butterflies.
3	Murraya paniculatum	Kamini/Kunti	14	Native to Western Ghats, this shrub has fragrant white flowers and dense foliage. It is a host plant for Butterflies.
4	Manilkara zapota	Chickoo	13	This small tree attracts Birds and Bees. Edible Fruit.
5	Citrus limon	Lemon	14	This Shrub is used in everyday Cooking and acts as a host plant for Butterflies.
6	Bauhinia racemosa	Apta	14	Native to Pune, this Shrub has a Religious importance
7	Mimusops elengi	Bakul	14	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	14	Native to Pune, this Deciduous White Flowering tree . Attracts Birds and Arboreal Mammals.
9	Lagerstroemia reginae	Tamhan	14	This Purple Flowering plant is the State flower of Maharashtra.
10	Cassia fistula	Bahava	13	This Flowering and Deciduous tree has beautiful Yellow chandeliers in Summers. Good perching site for Birds.
11	Erythrina variegata	Pangara	7	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)	75 KW
	DG set as Power back-up during construction phase	30 KVA
	During Operation phase (Connected load):	1181 KW
	During Operation phase (Demand load):	689 KW
	Transformer:	630 KVA & 200 KVA
	DG set as Power back-up during operation phase:	125 KVA & 30 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Solar Water Heater- 23.1 KLD
Solar Street Lights- 2.08 KW/Day
Solar PV Generation- 9 KW/DAy

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Water Heater	321552 KWH/Annum
2	Electronic V3F Drives for Lift	16337.40 KWH/Annum
3	Solar PV Generation	9450 KWH/Annum
4	Timer Logic Controler	36207 KWH/Annum

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	49.63
	O & M cost:	2.13

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Site sanitation	Health & Safety	0.60

2	Environmental monitoring	Air , Water & Noise	1.80
3	Disinfection	Health & Safety	0.50
4	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	RWH	Pits	2.60	0.11
2	Sewage Treatment	STP	31	3.41
3	Solid Waste	Composting	8.04	2
4	Air Pollution	Trees	6.92	0.35
5	Energy	Savings	49.63	2.13
6	Monitoring	Air, Water & Noise	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 Junction with sufficient width provided for incoming & outgoing cars separately to avoid traffic congestion.

Parking details:	**Number and area of basement:**	0
	Number and area of podia:	1 of 3873.15 Sqm
	Total Parking area:	2574 Sqm
	Area per car:	12.5 Sqm
	Area per car:	12.5 Sqm
	Number of 2-Wheelers as approved by competent authority:	510
	Number of 4-Wheelers as approved by competent authority:	98
	Public Transport:	Not Proposed
	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	8 (a)
	Court cases pending if any	No
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Residential & Commercial Project at S. No. 19, Village Khadakwasla, Taluka- Haveli,Dist- Pune by Mr. Sandeep Shankarrao Satav.

PP submitted their application for prior Environmental clearance fortotal plot area of 11800Sq. Mtrs, BUA of25804.55Sq. Mtrs and FSI area of 14370.33 Sq. Mtrs.PP proposes to construct 4 no. residential building and 1 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

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 Environment management plan.
2) PP to submit revised debris management plan.
3) PP to submit an indemnity bond for project land.
4) PP to submit undertaking for CER activities.

FINAL RECOMMENDATION

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

Agenda of 69 th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 69 **Meeting Date** August 30, 2018

Subject: Environment Clearance for Residential cum Commercial Project

Is a Violation Case: No

1.Name of Project	Hagwood Commercial Developers Pvt Ltd
2.Type of institution	Private
3.Name of Project Proponent	Lt. Col. Sudhanshu Chaturvedi (Retd)
4.Name of Consultant	EIA Coordinator: Sourabh Jaiswar; M/s Pollution and Ecology Control Services
5.Type of project	Residential cum Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes on dated 26/11/2012.
8.Location of the project	S. No. 25, 29,30
9.Taluka	Nagpur
10.Village	Chinchabuvan
Correspondence Name:	Lt Col Sudhanshu Chaturvedi
Room Number:	105/106
Floor:	Ground
Building Name:	Dream Square
Road/Street Name:	Off New Link Road, Dalia Industrial Estate
Locality:	Andheri West
City:	Mumbai
11.Area of the project	NMC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: MNPN/NRV/Nagar Rachna Vibhag/AntimManjuri/10 dated 26th June 2018
	Approved Built-up Area: 86219.25
13.Note on the initiated work (If applicable)	As per environmental clearance dated 26/11/2012.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	73417.86 sq mt
16.Deductions	14686.78
17.Net Plot area	58731.18
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 86219.25
	b) Non FSI area (sq. m.): 58518.93
	c) Total BUA area (sq. m.): 144738.18
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 86219.25
	Approved Non FSI area (sq. m.): 58518.93
	Date of Approval: 26-06-2018
19.Total ground coverage (m2)	29641.73
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.8
21.Estimated cost of the project	3738200000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	01 Commercial Building	LG+G+2	20.55 M
2	05 Residential Building	B+St+14	48 M
3	01 Club House	G+1	9 M

23.Number of tenants and shops	Multiplex , Food courts and 150 Shops 434 Flats
24.Number of expected residents / users	Permanent Staff 1500; Floating population 11678, Resi: 2170
25.Tenant density per hectare	90
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 mt
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	NMC/ Ground Water
	Fresh water (CMD):	366
	Recycled water - Flushing (CMD):	218
	Recycled water - Gardening (CMD):	78
	Swimming pool make up (Cum):	7
	Total Water Requirement (CMD) :	669
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	70
	Excess treated water	178
Wet season:	**Source of water**	NMC/ Ground Water
	Fresh water (CMD):	366
	Recycled water - Flushing (CMD):	218
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	7
	Total Water Requirement (CMD) :	591
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	70
	Excess treated water	256
Details of Swimming pool (If any)	01	

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:**	about 18 m to 20 m
	Size and no of RWH tank(s) and Quantity:	One tank of 100 cum for commercial building
	Location of the RWH tank(s):	Below ground
	Quantity of recharge pits:	09
	Size of recharge pits :	1.5 Mtrs. Dia x 3 Mtrs. Effective Depth
	Budgetary allocation (Capital cost) :	20
	Budgetary allocation (O & M cost) :	02
	Details of UGT tanks if any :	Domestic (U/g) = for Commercial 220 Cu.M/D, for Residential 200 Cu M/D Flushing (U/g) = for Commercial 120 Cu.M/D, for Residential 100 Cu M/D
35.Storm water drainage	**Natural water drainage pattern:**	Surface storm water will be routed towards the periphery storm water drain channel by gravity.
	Quantity of storm water:	43 cum/hr
	Size of SWD:	We have proposed open storm water drain channel with grating at the periphery of 450mm wide with starting depth of 150mm and sloping towards discharge point in 1:300 slope.
Sewage and Waste water	**Sewage generation in KLD:**	255 for residential and 261 for Commercial
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	01 x 275 KLD for Residential and 01 x 275 KLD for commercial
	Location & area of the STP:	Below Ground , 425 sq.m
	Budgetary allocation (Capital cost):	110.0 Lacs
	Budgetary allocation (O & M cost):	18.25 Lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Approx. 250 to 300 kg/day
	Disposal of the construction waste debris:	used at site for making internal roads
Waste generation in the operation Phase:	**Dry waste:**	435 kg/day for Residential + 1575 kg/day for commercial
	Wet waste:	650 kg/day for Residential + 1050 kg/day for commercial
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	40-45 kg
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Segregate at site & sale all recyclable waste & Remaining & inert waste handed over to local vendor
	Wet waste:	Composting through OWC machine
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	65 sq.m
	Area for machinery:	20 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	26 Lacs
	O & M cost:	8.50 Lacs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	11015.66 sq mt
	No of trees to be cut :	NA
	Number of trees to be planted :	925
	List of proposed native trees :	Given in below list
	Timeline for completion of plantation :	Dec 19

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Saraca indica	Sita ashok	200	Evergreen medicinal plant
2	Mangifera indica	Mango tree	50	Fruiting & bird attracting tree
3	Butea monosperma	Flame tree	100	Used in pesticide & dye preparation
4	Cassia fistula	Golden shower	150	Drought tolerant, ornamental & medicinal plant
5	Ficus benjamina	Weeping fig	75	Evergreen & bird attracting tree
6	Mimusopes elengi	Bakul	75	Evergreen tree, medicinal plant
7	Azadirachta indica	Neem	50	Evergreen Tree & Medicinal Plant
8	Roystonea regia	Royal palm	100	Nitrogen fixer, ornamental plant
9	Neolamarkia cadamba	Kadamba tree	75	Tropical fruit tree & bird attracting tree
10	Cassia grandis	Pink shower	50	Drought tolerant, ornamental & medicinal 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 :**	MSEDC
	During Construction Phase: (Demand Load)	255 KVA
	DG set as Power back-up during construction phase	250 KVA
	During Operation phase (Connected load):	16.73 MW
	During Operation phase (Demand load):	7.936 MW
	Transformer:	7 x 630 KVA for Residential and 3 x 2000 KVA for commercial
	DG set as Power back-up during operation phase:	1x 625 KVA, 2 x 2500 KVA & 1 x 1500 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

? Light fixtures will be used with energy saving LED & T5 fluorescent tube with electronic chocks.
? Use of Solar energy for street & landscape lightings.
? Small capacity transformers having low no load and load losses.
? Selection of Energy efficient equipments (BEE STAR RATED)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	? Light fixtures will be used with energy saving LED & T5 fluorescent tube with electronic chocks. ? Use of Solar energy for street & landscape lightings. ? Small capacity transformers having low no load and load losses. ? Selection of Energy efficient equipments (BEE STAR RATED	33%

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:**	135 lacs
	O & M cost:	08 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	Drinking water	as per drinking water standard	5
2	Sanitation	PH, BOD, COD, SS etc.	8

3	Health Checkup	TB, Blood checkup, Dengue etc.	6
4	Labout Camp	Hygene, Insecticide, Fuel etc	6
5	Safety	Safety shoes, Net, Rope, Lift, Barricading, Helmet etc	10

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	PH, BOD, COD, TSS etc	110	18.25
2	Rain Water Harvesting	Oil & Greas, PH etc	20	02
3	Solid Waste Management	Segregation of Waste, Composting	26	8.5
4	Energy Saving measures	Non conventional appliances, Solar light	135	8
5	Green Belt	Plantation	69	5.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	02

Parking details:	**Number and area of basement:**	One basement for Residential 7523.38 sq mt + Lower ground floor for Retail 22783.08 sq mt
	Number and area of podia:	NA
	Total Parking area:	37,500 sq mt
	Area per car:	24.50 sq.m for open, stilt & for basement about 34.50 sq.m
	Area per car:	24.50 sq.m for open, stilt & for basement about 34.50 sq.m
	Number of 2-Wheelers as approved by competent authority:	3165
	Number of 4-Wheelers as approved by competent authority:	1412
	Public Transport:	Proposed Metro, Bus
	Width of all Internal roads (m):	mim 6.0 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	8 b (B1)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	30-12-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for commercial Project at S. No. 25, 29,30 , Chinchabuvan, Nagpur.by **M/s. Hagwood Commercial Developers Pvt Ltd.**

PP submitted their application formodernization in Environmental clearance fortotal plot area of 40078.364Sq. Mtrs, BUA of 91251.35Sq. Mtrs and FSI area of 35180.06Sq. Mtrs.PP proposes to construct 1 commercial building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit affidavit for Total BAU is 1, 26,000 .Sq mtr and they will not construct more than that including phase 1 & phase 2.
2) PP to submit revised fire tender movement plan and cross section at four places which will include drain,footpath-6 Mtr to be provided for fire tender movement.
3) PP to submit parking layout plan for ground floor and Terrace floor to be provided separately with drive way not less than 6 Mtr.
4) PP to submit ramp minimum 7 Mtr wide and slope not less than 1:10 to be provided and cross section to ramp to be provided, parking statement as per DCR and locations were provided to be given.
5) PP to submit Traffic Management plan for development plan for the development – Internal circulation with road width should be revised with showing clear road width showing clear road of 6 meter s and turning radius of 9 mtrs ,PP to submit cross section of roads at four to five places showing clear road width 6 meter, 1.5 meter distance left from building line, spaces left for plantation ,footpath , service lines etc.
6) PP to submit revise DMP cost and showing lighting arrestor.
7) PP to submit revised Tree list and plantation plan.
8) PP to submit CFO NOC.
9) PP to submit Airport Authority NOC.
10) PP to submit Drainage NOC.
11) PP to submit Water NOC.
12) PP to submit E-waste NOC.
13) PP to submit Carbon foot print.
14) PP to submit Geohydrological report.
15) PP to submit details of socio economic infrastructure within vicinity of plot especially primary/secondary schools, Markets etc.
16) PP to submit site specific EMP for the entire project, considering plot area as per earlier EC.
17) PP to submit plan showing PP to submit plan showing the alignment of storm water drain arrangement up to final disposal point by proposing adequate SW drain in layout with details of final chamber within the property and final chamber on Municipal sewer line.
18) PP to submit plan showing PP to submit plan showing the alignment of storm water drain arrangement up to final disposal point by proposing adequate SW drain in layout with details of final chamber within the property and final chamber on Municipal sewer line.
19) PP to submit Debris management plan.
20) PP to submit undertaking for CER activities.

FINAL RECOMMENDATION

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

Subject: Environment Clearance for M/s Atul Builders

Is a Violation Case: No

1.Name of Project	Solitaire Business Hub
2.Type of institution	Private
3.Name of Project Proponent	Atul Chordia
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	Commercial Development
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 EC is received vide letter number SEAC-2016/C.R.424/TC-1 dated 12.05.2017
8.Location of the project	Sr. No 121/1+2/1, (Old) 121/1A/2/1 (New) Baner
9.Taluka	Haveli
10.Village	Baner
Correspondence Name:	Level 8, Solitaire World, Baner-45
Room Number:	Level 8
Floor:	8th
Building Name:	Solitaire World
Road/Street Name:	Pune Bangalore Highway
Locality:	Baner
City:	Pune
11.Area of the project	Pune Municipal Corporation.(PMC)
12.IOD/IOA/Concession/Plan Approval Number	IOD sanction on 12/01/2018 and CC/2666/17 3B+1 Shop fl.+ 1 Restaurant Fl.+ 10 floors.
	IOD/IOA/Concession/Plan Approval Number: IOD sanction on 12/01/2018 and CC/2666/17
	Approved Built-up Area: 53338.00
13.Note on the initiated work (If applicable)	Work has been initiated as per earlier EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	18,205.08
16.Deductions	6351.49
17.Net Plot area	10075.55
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 30223.83
	b) Non FSI area (sq. m.): 27665.38
	c) Total BUA area (sq. m.): 57889.21
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 19560.30
	Approved Non FSI area (sq. m.): 23826.02
	Date of Approval: 06-03-2018
19.Total ground coverage (m2)	2642.83
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25
21.Estimated cost of the project	1350000000

22.Number of buildings & its configuration

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

1	Tower 1	3B+ G + 11 Upper floors	49.95 mt (max height)

23.Number of tenants and shops	Shops: 24 (Retail: 12 & Restaurant: 12) Offices: 219 with IBE (Integrated Business Environment)
24.Number of expected residents / users	2154 including floating population
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)	30 m wide external road Existing, nearest fire station Hinjewadi fire station at ~11 km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9 m.
29.Existing structure (s) if any	None
30.Details of the demolition with disposal (If applicable)	Not any

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	123
	Recycled water - Flushing (CMD):	65
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	198
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	103

Wet season:	Source of water	PMC
	Fresh water (CMD):	123
	Recycled water - Flushing (CMD):	65
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	188
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	40
	Excess treated water	113
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	123	123	Not applicable	10	10	Not applicable	113	113
Domestic	NA	65	65	NA	00	00	NA	65	65
Gardening	NA	10	10	NA	10	10	NA	00	00

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	3-10m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	4
	Size of recharge pits :	2 x 2 x 2
	Budgetary allocation (Capital cost) :	400000
	Budgetary allocation (O & M cost) :	40000
	Details of UGT tanks if any :	UGT are provided

35.Storm water drainage	**Natural water drainage pattern:**	South to North
	Quantity of storm water:	0.31 m3/sec
	Size of SWD:	600 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	178 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 x 180 m3
	Location & area of the STP:	As per layout
	Budgetary allocation (Capital cost):	30,00000
	Budgetary allocation (O & M cost):	200000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 Kg/day
	Disposal of the construction waste debris:	Cutting 100000m3, filling= 25000 m3 and remaining shortfall to be filled with during construction debris.
Waste generation in the operation Phase:	**Dry waste:**	377 Kg/day
	Wet waste:	162 Kg/day
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	16 Kg/day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recyclers (SWaCH)
	Wet waste:	Organic waste Composting machine
	Hazardous waste:	Handed over to authorized recyclers
	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:	40 m2
	Area for machinery:	Considered in above mentioned area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	800000
	O & M cost:	40000

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	3 x 1250	HSD	03	as per CPCB	0.5	90

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 :**	1185.36
	No of trees to be cut :	00
	Number of trees to be planted :	179
	List of proposed native trees :	All native
	Timeline for completion of plantation :	3 yrs

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	Bahawa	15	Medium sized deciduous tree. A beautiful tree for small gardens, parks and along medium and small roads excellent yellow inflorescence

2	Anthocephalus kadamba	Kadamba	12	Large sized deciduous tree strong branching pattern.The fragrant orange flowers attract pollinators / butterflies
3	saraca indica	Sita ashok	15	Evergreen tree, with deep green leaves growing in dense clusters.
4	Bauhinia racemosa	Apta	22	In Maharashtrian families it is customary to exchange leaves of the Aapta tree on the Hindu festive day of Dussehra. An act known as exchanging Gold—pointing to the special significance of the plant on that particular day
5	Lagerstromia speciosa	Tamhan	13	It is fast growing plant
6	Albizia lebbeck	Shirish	14	Large sized deciduous tree. The tree has a graceful appearance and beautiful foliage
7	Bauhinia blackiana	kanchan raj	16	Small sized deciduous tree. It is suitable for roadside planting and also used for group planting or as specimen tree in large lawns.
8	Erythrina variegata	Pangara	10	It is an ornamental tree
9	Nyctanthes arbortristic	parijatak	22	Flower bearing plant
10	Derris indica	karanj	10	The oil from this tree is not edible but can produce bio-gas Karanja is a herbal medicine used in Ayurveda which predominantly is used in treating skin diseases
11	Azadirachta indica	neem	12	Neem leaves are dried in India and placed in cupboards to prevent insects eating the clothes, and also in tins where rice is stored. Neem leaves are dried and burnt in the tropical regions to keep away mosquitoes.
12	Mangifera indica	Mango	10	different parts of the mango tree, both as food and medicine. Extracts of the bark, leaves, stems, and unripe fruits have demonstrated antibiotic properties in vitro, and are used in traditional medicine
13	Psidiumguajava	Guava	8	Fruits are edible and leaves used as medicine
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)	25 KW
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	4052.05 kVA
	During Operation phase (Demand load):	3039.04 kVA
	Transformer:	6 x 630 kVA, 1 x 315 kVA
	DG set as Power back-up during operation phase:	3 x 1250 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving using Solar Based PV system for Street Lighting and Energy saving with using T5/LED energy efficient fixture.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy saving with using T5/LED energy efficient fixture.	1% of connected Load
2	Energy saving with using T5/LED energy efficient fixture.	1% of connected Load

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG set	NA	Stack

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	250000
	O & M cost:	50000

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	0.32
2	Air Environment	Air & Noise monitoring	0.48
3	Water Environment	Tanker water for construction	1.08
4	Water Environment	Water monitoring	0.60

5	Land Environment	Site Sanitation	8.10
6	Biological Environment	Gardening	2.50
7	Biological Environment	Top soil preservation	0.19
8	Socio- Economic Environment	Socio- Economic Environment	7.82

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	STP	30,00000	200000
2	OWC	OWC	800000	40000
3	Environmental Monitoring	Environmental Monitoring	00	1126000
4	Landscape	Landscape	887000	107000
5	Energy Saving + Solar energy	Energy Saving + Solar energy	250000	50000
6	Basement ventillation	Fresh air / exhaust air fire rated dual speed fans, Jet fans, panel , cabling and CO based control system	5500000	700000
7	RWH	RWH	400000	40000
8	Water	Tanker water supply	-	1022000
9	Basement Dewatering	-	900000	300000

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 24 m wide road

Parking details:	**Number and area of basement:**	No. of Basement: 03 Area of Basement: 16295 sqm
	Number and area of podia:	NA
	Total Parking area:	20433.47 Sqm
	Area per car:	12.5 Sqm
	Area per car:	12.5 Sqm
	Number of 2-Wheelers as approved by competent authority:	1729
	Number of 4-Wheelers as approved by competent authority:	684
	Public Transport:	Nearest Bus Stop: Baner
	Width of all Internal roads (m):	6m and 9m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 15 km
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	Not Applicable
	Other Relevant Informations	None
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	16-02-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Commercial Development, Solitaire Business Hubat Sr. No 121/1+2/1, (Old) 121/1A/2/1 (New) Baner by **M/s Atul Builders.**

PP submitted their application for Amendment of Environmental clearance fortotal plot area of 18205.08Sq. Mtrs, BUA of57889.21Sq. Mtrs and FSI area of 30223.83Sq. Mtrs.PP proposes to construct 1 no. commercial tower.

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 E-waste NOC.
2) PP to submit revised geohydrological report.
3) PP to submit STP details.
4) PP to submit energy saving calculations along with renewable energy details
5) PP to submit undertaking for implementation of CER.

FINAL RECOMMENDATION

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

Agenda of 69 th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 69 **Meeting Date** August 30, 2018

Subject: Environment Clearance for Environment Clearance for Project

Is a Violation Case: No

1.Name of Project	Nirman Altius
2.Type of institution	Private
3.Name of Project Proponent	Nirman Associates
4.Name of Consultant	MITCON Consultancy & Engineering Services Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 7/2, Village Kharadi, Tal. Haveli, Dist. Pune, Maharashtra
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	Mr. Sandeep Maheshwari
Room Number:	205,
Floor:	Second Floor,
Building Name:	City Center.
Road/Street Name:	Karve Road,
Locality:	Opp. Ayurvedic Rasshala
City:	Pune
11.Area of the project	Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD
	IOD/IOA/Concession/Plan Approval Number: IOD
	Approved Built-up Area: 35048.74
13.Note on the initiated work (If applicable)	Part of A, B and C wing (Total area 13092.65 sqm) constructed as per previous LOI
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	10500 sqm
16.Deductions	2936.88 sqm
17.Net Plot area	6370.71 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 15947.21
	b) Non FSI area (sq. m.): 19101.53
	c) Total BUA area (sq. m.): 35048.74
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)	1489.58
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.38
21.Estimated cost of the project	470000000

22.Number of buildings & its configuration

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

1	Wing	Basement+Ground+Stilt Parking+1st Floor Parking+12 floors	42.75
2	Wing "B"	Basement+Ground+Stilt Parking+1st Floor Parking+14 floors	48.45
3	Wing "C"	Basement + Ground Floor + 11 Floor	35.64
4	Club House	Ground Floor + 1 floor	8.22

23.Number of tenants and shops	211 Flats and 27 Commercial
24.Number of expected residents / users	1446
25.Tenant density per hectare	226
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Part of A,B,C Wing (Total Area 13092.65 sqm) constructed as per the previous LOI received
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	104.73
	Recycled water - Flushing (CMD):	55.30
	Recycled water - Gardening (CMD):	6.30
	Swimming pool make up (Cum):	2.16
	Total Water Requirement (CMD) :	113.73
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	20000
	Excess treated water	89.85
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	104.73
	Recycled water - Flushing (CMD):	55.30
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	2.16
	Total Water Requirement (CMD) :	113.73
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	20000
	Excess treated water	83.55
Details of Swimming pool (If any)	Swimming pool	

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: 6.0 m, Post monsoon: 4.5 m
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	5
	Size of recharge pits :	2.00 m x 2.00 m x 1.50 m
	Budgetary allocation (Capital cost) :	3.75 lakhs
	Budgetary allocation (O & M cost) :	1.00 lakhs
	Details of UGT tanks if any :	Domestic water tank 1: 1,20,000 Liter Dinking water tank 2: 24,000 Liter Commercial water tank: 32,000 Liter Firefighting tank: 1,50,000 Liter
35.Storm water drainage	**Natural water drainage pattern:**	East to West
	Quantity of storm water:	462.00 cum/hr
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	152.79
	STP technology:	Fluidized Aerobic Bio-reactor (FAB)
	Capacity of STP (CMD):	1 No. with capacity 160 KLD
	Location & area of the STP:	As shown in the drawing
	Budgetary allocation (Capital cost):	28.00 Lakhs
	Budgetary allocation (O & M cost):	7.00 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	12.63 KG
	Disposal of the construction waste debris:	Through authorize vendors
Waste generation in the operation Phase:	**Dry waste:**	244 Kg/day
	Wet waste:	365 Kg/day
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	4.5 Kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Through Municipal authority /Authorized vendors
	Wet waste:	Through Organic waste converter
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	For Gardening
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	As shown in the drawing
	Area for the storage of waste & other material:	43 sqm
	Area for machinery:	25 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15.00 Lakhs
	O & M cost:	2.50 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	930.76 sqm
	No of trees to be cut :	NIl
	Number of trees to be planted :	100
	List of proposed native trees :	Jamun, Neem, Bakul, Kanchan, Sonchafa, Fish tail Palm, Palas, Mahigani, Mango, Kailashpati
	Timeline for completion of plantation :	Two months after project completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygiumcumini	Jamun	3	Shady tree, windbreak, ornamental, edible fruit
2	Azadirachtaindica	Neem	6	Avenues roadsides for shade, ornamental use, used as windbreak, purifies air
3	Mimusopselengi	Bakul	14	Medium sized evergreen tree
4	Bauhinia purprea	Kanchan	4	Medicinal plant and also used to make fiber ,tree is extremely drought resistant
5	Micheliachampaca	Sonchafa	12	It is best known for its strongly fragrant yellow or white flowers.
6	Caryotaurens	Fish tail palm	11	Slow growing, attractive tree
7	Buteamonosperma	Palas	6	Used to provide shade , Medium-sized semi-evergreen tree.
8	Erythrinaindica	Pangara	12	Flowering , Medium sized deciduous tree
9	Plumeria alba	Plumeria alba	10	Attractive to bees, butterflies & birds, very ornamental
10	Magniferaindica	Mango	3	Fruit tree with medium canopy can be used for shed too.
11	Lagerstroemia flosreginae Retz.	Tamhan	8	Ornamental flowering plant.
12	Couroupitaguianensis	Kailashpati	2	Flowering tree with medicinal property
13	Khayaanthotheca	Mahogany	9	Used to provide shade , Medium-sized semi-evergreen tree. It is used for ship making and furniture making work.
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 W
	DG set as Power back-up during construction phase	82 KVA 1 NO.
	During Operation phase (Connected load):	1168 KW
	During Operation phase (Demand load):	590 KW
	Transformer:	630 KVA, 1 No.
	DG set as Power back-up during operation phase:	82 KVA 1 NO.
	Fuel used:	13.8 Lit/Hr @75% loading
	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 Energy for Outdoor/Street lighting	7965 KWH/Annum
2	Auto Timer Logic Controller	31649.88 KWH/Annum
3	Electronic V3F drive for Lifts	9802.44 KWH/Annum
4	Solar Water heater	293712.00 KWH/Annum

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50.00 lakhs
	O & M cost:	1.50 lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water and dust suppression	Water and dust suppression	1.00

2	Site Sanitation, Disinfection& Safety	Site Sanitation, Disinfection& Safety	2.00
3	Environmental Monitoring	Environmental Monitoring	0.15
4	Disinfection	Disinfection	1.00
5	Health Check up	Health Check up	2.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP Cost	STP Cost	28.00	7.00
2	Solid Waste Management	Solid Waste Management	15.00	2.50
3	Green Belt development	Green Belt development	7.00	1.00
4	Rain water harvesting	Rain water harvesting	3.75	0.50
5	Energy Efficient equipments	Energy Efficient equipments	50.00	1.50
6	Environmental monitoring	Monitoring charges for air, water, waste water, soil, DG stack, noise etc.	Nil	1.50
7	Rain water and storm water channelization	Rain water and storm water channelization	5.00	0.20
8	Basement ventilation	Basement ventilation	2.00	0.50

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	one basement
	Number and area of podia:	NA
	Total Parking area:	9716.22 sqm
	Area per car:	30 sqm
	Area per car:	30 sqm
	Number of 2-Wheelers as approved by competent authority:	400
	Number of 4-Wheelers as approved by competent authority:	147
	Public Transport:	Yes
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a), B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Environment Clearance for Project at S. No. 7/2, Village Kharadi, Tal. Haveli, Dist. Pune, Maharashtra by **M/s. Nirman Associates.**

PP submitted their application for prior Environmental clearance fortotal plot area of 10500Sq. Mtrs, BUA of35048.74Sq. Mtrs and FSI area of 15947.21Sq. Mtrs.PP proposes to construct 3 no. residential building (wings) and 1 club house.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit RG plan.
2) PP to submit undertaking for CER activities.

FINAL RECOMMENDATION

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

Agenda of 69 th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 69 **Meeting Date** August 30, 2018

Subject: Environment Clearance for Amendment in Residential & Commercial Development project at Wakad Pune Maharashtra

Is a Violation Case: No

1.Name of Project	Proposed Residential & Commercial Development
2.Type of institution	Private
3.Name of Project Proponent	Mr Vinayak Jogdeo
4.Name of Consultant	ULTRA - TECH
5.Type of project	Residential and Commercial development
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, we have obtained previous EC vide letter SEAC 2015/CR13/TC - 13 dated 25th January 2016.
8.Location of the project	S. No. 131/1,131/2+3+4+6/1,131/2+36/3,131/2+3+6/4,131/2+3+6/5,131/2+3+6/6,131/5,131/7/1,132/1,132/2,132/3,132/5,132/6 Of Wakad
9.Taluka	Haveli
10.Village	Wakad
Correspondence Name:	Mr.Vinayak Jogdeo
Room Number:	NA
Floor:	IInd Floor
Building Name:	City Point
Road/Street Name:	Dhole Patil Road
Locality:	Pune
City:	Pune
11.Area of the project	Pimpri-Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOA Received
	IOD/IOA/Concession/Plan Approval Number: IOA Received
	Approved Built-up Area: 84269.68
13.Note on the initiated work (If applicable)	We have initiated work as per old EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	68,605.25 Sqm
16.Deductions	8547.03 Sqm
17.Net Plot area	48433.16 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 84,269.68
	b) Non FSI area (sq. m.): 81,806.18
	c) Total BUA area (sq. m.): 166075.86
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 84,269.68
	Approved Non FSI area (sq. m.): --
	Date of Approval: 27-06-2018
19.Total ground coverage (m2)	9617.79 Sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20
21.Estimated cost of the project	6080000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A Bldg (Resi.)	2P + 13	38.35
2	B Bldg. (Resi.)	2P + 13	38.35
3	C Bldg. (Resi.)	2P + 13	38.35
4	D Bldg. (Resi.)	2P + 13	38.35

5	E Bldg. (Resi.)	2P + 19	56.05
6	F Bldg. (Resi.)	2P + 19	56.05
7	G Bldg. (Resi.)	2P + 13	38.35
8	H Bldg. (Resi.)	2P + 13	38.35
9	I Bldg. (Resi.)	2P + 13	38.35
10	J Bldg. (Resi.)	2P + 13	38.35
11	K Bldg (Resi)	B+2P + 13	37.70
12	K1 Comm.	G+Mezz.	7.20
13	K2 Comm.	G+0	5.40
14	K3 Comm.	G+0	5.40
15	K4 Comm.	G+0	5.40
16	M Bldg. (Comm.)	LP+G+Mezz+10.5	46.75
17	N Bldg. (Resi)	P + 13	38.35
18	EWS Bldg. (Resi)	P + 11	31.90

23.Number of tenants and shops	No. of Tenements: 977 Shops: 78 Offices:178
24.Number of expected residents / users	Residential: 4885 Nos. and Floating: 3080 Nos.
25.Tenant density per hectare	142 Tenant / hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest Fire Station at Hinjewadi & Width of the road from the nearest fire station to the proposed building -24m. wide road abutting to site
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9 m.
29.Existing structure (s) if any	We have initiated work as per old EC
30.Details of the demolition with disposal (If applicable)	Not any

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	475
	Recycled water - Flushing (CMD):	328
	Recycled water - Gardening (CMD):	39
	Swimming pool make up (Cum):	11
	Total Water Requirement (CMD) :	853
	Fire fighting - Underground water tank(CMD):	575
	Fire fighting - Overhead water tank(CMD):	280
	Excess treated water	324
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	475
	Recycled water - Flushing (CMD):	328
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	11
	Total Water Requirement (CMD) :	813
	Fire fighting - Underground water tank(CMD):	575
	Fire fighting - Overhead water tank(CMD):	280
	Excess treated water	363
Details of Swimming pool (If any)	• Dimension of Swimming Pool: • Main Pool: 13m X 25m X 1.2m • Kids Pool: 7m X8m X 0.45m • Total water Requirement in KL: 415.2 • Water requirement for make up in KLD: 8	

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	438	36	474	43	4	47	395	33	428
Domestic	285	43	328	37	5	32	334	38	372
Gardening	39	0	39	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	12-15m
	Size and no of RWH tank(s) and Quantity:	4 tanks of total quantity 600 KL
	Location of the RWH tank(s):	As per layout
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	90 Lacs
	Budgetary allocation (O & M cost) :	2.00 Lacs/ annum
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	W to E
	Quantity of storm water:	0.30 m3/Sec
	Size of SWD:	600 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	689
	STP technology:	Phytorid Technology
	Capacity of STP (CMD):	638 and 86 KL
	Location & area of the STP:	As marked on drawing and area provided 950 Sq. m.
	Budgetary allocation (Capital cost):	275 Lasc
	Budgetary allocation (O & M cost):	15 Lacs/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 kg/day
	Disposal of the construction waste debris:	Cutting= 44589 m3, filling= 37541 m3 and remaining shortfall to be filled with during construction debris.
Waste generation in the operation Phase:	**Dry waste:**	1341 kg/day
	Wet waste:	1699 kg/day
	Hazardous waste:	nil
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	100kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recyclers (SWACH)
	Wet waste:	OWC composting machine
	Hazardous waste:	NA
	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:	90 Sq. mt.
	Area for machinery:	90 Sq. mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	35.08 Lacs
	O & M cost:	9.40 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	--	--	--	--	--	--	--

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	-	HSD Day Oil Tank	3 Nos.	2.5 Mtr above habitable space	150mm, 100mm, 100mm	300

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	HSD	--
41.Source of Fuel		Nearby pump		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	5355.57 Sqm
	No of trees to be cut :	0
	Number of trees to be planted :	720 Nos.
	List of proposed native trees :	As given below in "List of proposed plantation on ground"
	Timeline for completion of plantation :	Before occupancy

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	45	Flowering bearing tree
2	Tabebuia rosea	Pink Trumpet tree	69	Flowering bearing tree
3	Tabebuia argentia	Trumpet tree	40	Flowering bearing tree
4	Michelia champaka	Champa	42	Flowering bearing tree
5	Pongamia pinnata	Karanj	40	Evergreen tree
6	Bauhinea purpurea	Kanchan	68	Flowering bearing tree
7	Murraya koengii	Kadipatta	20	Evergreen tree
8	Plumeria alba	Chafa	72	Flowering bearing tree
9	Peltopherum	Copper pod tree	41	Evergreen tree
10	Saraca indica	Sita ashok	21	Flowering bearing tree
11	Putranjiva roxburghii	Putranjiva	35	Evergreen tree
12	Erythrina indica	Indian coral tree	49	Flowering bearing tree
13	Nyctanthes arbortristis	Parijatak	38	Flowering bearing tree
14	Azadirachta indica	Neem	53	Deciduous tree
15	Mangifera indica	Mango	20	Evergreen fruit bearing tree
16	Psidium guajava	Guava	22	Evergreen fruit bearing tree
17	Syzygium jambos	Jamun	16	Evergreen fruit bearing tree
18	Manikara Zapota	Chikoo	25	--
19	Ficus Religiosa	Pimple	2	--
20	Ficus benghalensis	Vade	2	--
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)	62 kVA
	DG set as Power back-up during construction phase	62.5 kVA
	During Operation phase (Connected load):	6286 KW / 7857 KVA
	During Operation phase (Demand load):	3517 KW / 4396 KVA
	Transformer:	7 Nos x 630 KVA + 1 No x 315 KVA
	DG set as Power back-up during operation phase:	1 No. 125 KVA,1 No. of 160KVA and 1 No. 365 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving using Solar Based PV system for Street Lighting
Energy saving with using T5/LED energy efficient fixture.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving using Solar Based PV system for Street Lighting	1% of connected Load
2	Energy saving with using T5/LED energy efficient fixture	37 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water	--	STP
Solid waste	--	OWC
Emmission	--	DG

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50 Lacs
	O & M cost:	1.5 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 Environment	Water For Dust Suppression Air & Noise monitoring	0.72

2	Air Environment	Air & Noise monitoring	1.92
3	Water Environment	Tanker water for construction	0.72
4	Water Environment	Water monitoring	0.6
5	Land Environment	Mobile toilets	6.75
6	Land Environment	Cost towards royalty of debris movement	11.00
7	Biological Environment	Gardening	6.0
8	Socio- Economic Environment	Disinfection- Pest Control First Aid Facilities and Health Check Up	2.63
9	Socio- Economic Environment	Creche for children	3.0
10	Socio- Economic Environment	Personal protective equipment	2.45
11	Cost Towards DMP	Capital Cost	56.93
12	Cost Towards DMP	O & M Cost	0.90

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	275.00	15.00
2	Rain water harwesting	RWH tank	90.00	7.50
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	21.96
4	Renewable energy	Solar System	50.00	1.50
5	Gardening	Gardening	60.00	6.00
6	Solid waste management	OWC costing	35.08	9.40
7	Swimming pool	--	82.00	2.00
8	Basement ventilation & Dewatering	--	9.93	0.70
9	Cost Towards DMP	--	796.10	48.09

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:	1
	Total Parking area:	22650 Sqm
	Area per car:	30 Sqm
	Area per car:	30 Sqm
	Number of 2-Wheelers as approved by competent authority:	2792 Nos.
	Number of 4-Wheelers as approved by competent authority:	491 Nos.
	Public Transport:	Nearest Bus Stop: Wakad
	Width of all Internal roads (m):	6m and 9m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (b) B1
	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

M/s. Kolte Patil Developers.

Environment Clearance for Expansion of Residential & commercial development at Survey no. 131/1,131/2+3+4+6/1,131/2+36/3, 131/2+3+6/4,131/2+3+6/5,131/2+3+6 /6,131/5,131/7/1,132/1,132/2,132/3,132/5,132/6 at village Wakad,Tal.Haveli Pune.

PP submitted their application for prior Environment Clearance for total plot area of 68605.25 Sq. Mtrs, BUA of 166075.86 Sq. Mtrs and FSI area of 84269.68 Sq. Mtrs. PP proposes to construct 13 nos. of residential buildings, 5 no. of Commercial building having maximum height of 38.35 Mtrs.

PP obtained earlier EC vide letter No.SEAC-2015/CR-13/TC-III dated 25.01.2015 for plot area of 68605.25 Sq. Mtrs,,BUA of 1,44,858.11 Sq. Mtrs. and FSI area of 84,966.31 Sq.Mtrs. comprising of 13 nos.of residential buildings , 2 No. Now due to change in market scenario, PP applied for modification/amendment/ expansion in earlier EC.

In the light of EIA Notification 2006 and amendment thereof issued by MoEF, SEAC III is required to give TOR's to the proposals in the category 8(B) B1. The proposal was discussed on the basis of draft TOR as presented by the PP. All issues related to environment, including air, water, noise, soil, ecology and biodiversity and social aspects were discussed.and committee grant TOR .

Now the case was discussed on the basis of the documents /EIA 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

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 revise plant trees list which help to increase biodiversity in same premises like fruit bearing etc.
2) PP to revise derbies management plan along with cost and excess debris disposal.
3) PP to submit CER activities in consultation with the affected people in the project area as per MoEF&CC circular dtd 1/05/2018.

FINAL RECOMMENDATION

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

Agenda of 69 th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 69 **Meeting Date** August 30, 2018

Subject: Environment Clearance for New Building Construction Project

Is a Violation Case: No

1.Name of Project	Proposed Affordable Housing Scheme EWS/LIG along with convenient shopping in Sector 12 by PCNTDA, under PMAY
2.Type of institution	TOR
3.Name of Project Proponent	Pimpri Chinchwad New Town Development Authority (PCNTDA) through Shri. Prabhakar Vasaikar
4.Name of Consultant	Ultra-Tech
5.Type of project	Residential Project with convenient shops
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	Spine Road, Sector 12, PCNTDA, Pune 411044
9.Taluka	Haveli
10.Village	Moshi
Correspondence Name:	Executive Engineer Prabhakar Vasaikar
Room Number:	--
Floor:	6th floor
Building Name:	New Administrative Building
Road/Street Name:	Near Akurdi Railway Station
Locality:	Akurdi
City:	Pune
11.Area of the project	Pimpri Chinchwad Municipal Corporation (PCMC)
12.IOD/IOA/Concession/Plan Approval Number	PCNTDA DCR
	IOD/IOA/Concession/Plan Approval Number: Provisional sanction for 2,18,912.77 sq m FSI received from PCNTDA dated 03.02.2018
	Approved Built-up Area: 290158.50
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	93496.50
16.Deductions	0
17.Net Plot area	93496.50
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 2,18,912.77
	b) Non FSI area (sq. m.): 71,245.73
	c) Total BUA area (sq. m.): 290158.50
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 2,18,912.77
	Approved Non FSI area (sq. m.): 71,245.73
	Date of Approval: 03-02-2018
19.Total ground coverage (m2)	24,072.69
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24.55
21.Estimated cost of the project	7650000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	DPR 1 Type A, 5 buildings	G+11	34.35
2	DPR 1, Type A1, 6 buildings	P+11	34.35
3	DPR 1, Type B, 2 buildings	G+11	34.35
4	DPR 1, Type B1, 2 Buildings	P+11	34.35
5	DPR 1, C Type, 4 buildings	G+11	34.35
6	DPR 1, C1 Type, 5 buildings	P+11	34.35
7	DPR 2 Type A, 2 buildings	G+11	34.35
8	DPR 2, Type A1, 9 buildings	P+11	34.35
9	DPR 2, Type B1, 1 Buildings	P+11	34.35
10	DPR 2, C Type, 1 buildings	G+11	34.35
11	DPR 2, C1 Type, 8 buildings	P+11	34.35
12	TOTAL 45 BUILDINGS	-	-

23.Number of tenants and shops	4883 flats and 140 shops
24.Number of expected residents / users	24,415 residential, 785 Commercial
25.Tenant density per hectare	522
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Sant Tukaram Nagar Fire Station, Pimpri Chinchwad through 30 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9 m
29.Existing structure (s) if any	Not Any
30.Details of the demolition with disposal (If applicable)	Not Any

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	2221
	Recycled water - Flushing (CMD):	1111
	Recycled water - Gardening (CMD):	204
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	3536
	Fire fighting - Underground water tank(CMD):	1200
	Fire fighting - Overhead water tank(CMD):	20 m3 per building
	Excess treated water	1350
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	2221
	Recycled water - Flushing (CMD):	1111
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	3332
	Fire fighting - Underground water tank(CMD):	1200
	Fire fighting - Overhead water tank(CMD):	20 m3 per building
	Excess treated water	1554
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	Not applicable	2221	2221	Not applicable	444.2	444.2	Not applicable	1776.8	1776.8
Domestic	Not applicable	1111	1111	Not applicable	222.8	222.8	Not applicable	888.8	888.8
Gardening	Not applicable	204	204	Not applicable	204	204	Not applicable	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon: 12-15 m BGL, Post monsoon 5-7 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	30 Nos.
	Size of recharge pits :	2 X 2 X 1.5m
	Budgetary allocation (Capital cost) :	45 Lakh
	Budgetary allocation (O & M cost) :	1.5 lakh/annum
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum): PROJECT 1: 2363.5 PROJECT 2: 2351.7 Total: 4715.24 Flushing tank Capacity (cum): PROJECT 1: 881.75 PROJECT 2: 783.92 Total: 1665.67 Fire UG tank Capacity (cum): PROJECT 1: 600 PROJECT 2: 600 Total: 1200
35.Storm water drainage	**Natural water drainage pattern:**	Towards South
	Quantity of storm water:	0.81 m3/sec and 0.737 m3/sec on either side of road
	Size of SWD:	900 mm hume pipe for each side
Sewage and Waste water	**Sewage generation in KLD:**	2665
	STP technology:	MMBR
	Capacity of STP (CMD):	2 Nos of STPs, PROJECT 1: 1.6 MLD, PROJECT 2: 1.3 MLD
	Location & area of the STP:	PROJECT 1: 508.54 sq m, Near Southernmost side of project PROJECT 2: 620.41 sq m, Near Open space
	Budgetary allocation (Capital cost):	3.4 cr
	Budgetary allocation (O & M cost):	150.87 lakh/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	2,02,381 m3 excavation
	Disposal of the construction waste debris:	Debris will be used within site for filling and road construction and levelling. Approx. 5994 m3 excess debris will be temporarily stored on adjacent land owned by the Project Proponent. Municipal waste from labour will be handed over to local body for safe disposal.
Waste generation in the operation Phase:	**Dry waste:**	5001 kg/day
	Wet waste:	7402.5 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	417 kg/day
	Others if any:	E waste: 36 kg/day

Mode of Disposal of waste:	**Dry waste:**	Handed over to PCMC
	Wet waste:	Treated in OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Treated in OWC and used for gardening excess will be handed over to nearby nurseries
	Others if any:	E waste will be handed over to authorised agency
Area requirement:	**Location(s):**	PROJECT 1: Near STP PROJECT 2: Near High School Reservation
	Area for the storage of waste & other material:	PROJECT 1: 270 sq m PROJECT 2: 228 sq m
	Area for machinery:	included in above area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	160 lakh
	O & M cost:	21 lakh/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	Mandatory RG area: 9,349.6 sq m
	No of trees to be cut :	Existing trees: 67 ,No. of trees to be transplanted: 05, No. of trees to be cut: 52 (All Babhul), No of trees to be retained: 10
	Number of trees to be planted :	1280
	List of proposed native trees :	Native trees are proposed
	Timeline for completion of plantation :	Before completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bauhinia purpurea	Kanchan	60	Large flowers, large, Evergreen.
2	Ficus religiosa	Pimpal	55	It is a glabrous, large tree mostly covered with epiphytes. It has characteristic milky latex. The bark of the tree is light grey in colour and peels off easily in patches.
3	Erythrina indica	Pangara	55	Medium sized deciduous tree, bright scarlet flowers
4	Cassia fistula	Bahava	55	Medium sized deciduous tree. Beautiful yellow flowers, butterfly host plant.
5	Citrus reticulate	Santra	55	Medium sized fruit bearing tree.
6	Psidium guajava	Peru	50	Medium sized fruit bearing tree.
7	Azardiracta indica	Neem	50	Large tree, good for roadside plantation. Medicinal
8	Mimuso pselengi	Bakul	50	Large tree good for road side plantation.
9	Cassia glauca	Cassia	50	Tall shrub with yellow flowers.
10	Bauhinia blackania	Hong Kong orchid	50	Large deciduous tree, flowers attract many birds.
11	Dillenia indica	Karmal	50	Large deciduous tree.
12	Bauhinia recemosa	Apta	50	Ornamental tree
13	Albizzia lebbek	Shirish	50	Shady, large tree, ball shaped flowers.
14	Butea monosperma	Palas	50	Small deciduous tree. Dark orange colored flowers. Good for roadside plantation.
15	Nyctanthes arbortristis	Parijatak	50	Small deciduous tree. Small white colored, fragrant flowers.
16	Anthocephalus cadamba	Kadamb	50	Shady, large tree, ball shaped flowers.
17	Lagerstromia speciosa	Taman	50	State flower tree of Maharashtra, medium sized tree, beautiful purple colored flowers.
18	Michelia champaca	Pivala chafa	50	Medium sized, evergreen tree, fragrant yellow flowers, butterfly host plant.

19	Swetania mohagani	Mohagani	50	Medium sized evergreen tree.
20	Saraca indica	Sita Ashok	50	Evergreen medicinal plant
21	Pterospermum acerifolium	Muchkund	40	Medium sized evergreen tree. Fragrant flowers.
22	Mangifera indica	Mango	40	Small deciduous fruit bearing tree.
23	Peltophorum afracanum	Copper pod	40	Tall deciduous tree. Good for roadside plantation.
24	Syzygium cumini	Jambhul	40	Large tree with large spreading crown.
25	Terminalia arjuna	Arjun	40	Large deciduous tree. Large spreading crown.
26	Ailanthus exeslsa	Maharukh	10	Shady tree, road side
27	Ficus retusa	Nandrukh	10	Shady tree, road side
28	Pongamia pinnata	Karanj	10	Shady tree, road side
29	Murraya paniculata	Kunti	10	Small tree, frangrant flower, butterfly host plant
30	Gmelia arborea	Shivam	10	Fast growing tree with yellow flowers
31	--	Total	1280	--
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)	PROJECT 1: 318 kVA, PROJECT 2: 319 kVA
	DG set as Power back-up during construction phase	PROJECT 1: 315 kVA, PROJECT 2: 315 kVA
	During Operation phase (Connected load):	PROJECT 1:8,445.36 kVA, PROJECT 2:8,297.05 kVA Total: 17,142.41 kVA
	During Operation phase (Demand load):	PROJECT 1:5,074.67 kVA, PROJECT 2:4,849.67 kVA Total: 9,924.34 kVA
	Transformer:	PROJECT 1: 630 kVA X 16 PROJECT 2: 630 kVA X 16
	DG set as Power back-up during operation phase:	PROJECT 1: 100 kVA X 2 Nos., 160 kVA X 2 Nos., 200 kVA X 2 Nos., 250 kVA X 1 Nos., 320 kVA X 1 Nos., PROJECT 2: 160 kVA X 2 Nos., 125 kVA X 1 Nos., 250 kVA X 4Nos.
	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: 30.39%
Solar PV: 0.91%
Use of LED for internal and external lighting: 1.18%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar water heating	30.90%
2	Solar PV	0.91%
3	Use of LED for internal and external lighting	1.18%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	Not applicable	MMBR 2 Nos.
OWC	Not applicable	2 Nos.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1016.88 lakh
	O & M cost:	20.34 lakh/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water For Dust Suppression	2.16
2	Air	Air & Noise Monitoring	0.48
3	Water	Tanker Water For Construction	1.44
4	Water	Water Monitoring	0.60
5	Land	Site Sanitation- Mobile toilets	6.00
6	Biological	Gardening Set Up and top soil preservation	16.26
7	Socio- Economic Environment	Disinfection- Pest Control	1.80
8	Socio- Economic Environment	First Aid	0.48
9	Socio- Economic Environment	Health Check Up	1.00
10	Socio- Economic Environment	Creches For Children	6.00
11	Socio- Economic Environment	Personal Protective Equipment	6.13

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	340.00	150.87
2	Rain Water Harvesting	RWH pit	45.00	1.50

3	Solid Waste Management	OWC	160.0	21.0
4	Green Belt Development	Landscape development	1626.5	144.57
5	Solar energy	Solr water heating	58.5	5.85
6	Solar energy	Solar PV	915.56	48.83
7	Environmental Monitoring	From MoEf&CC approved laboratory	0	17.64

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	35971
	Area per car:	30
	Area per car:	30
	Number of 2-Wheelers as approved by competent authority:	3317
	Number of 4-Wheelers as approved by competent authority:	2347
	Public Transport:	PMPML Yashwant Nagar Bus Stop
	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	None within 10 Km
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	NA
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Affordable Housing Scheme EWS/LIG along with convenient shopping in Sector 12 by PCNTDA, under PMAY by Pimpri Chinchwad New Town Development Authority (PCNTDA) through Shri. Prabhakar Vasaikar.

DECISION OF SEAC

After deliberation, Committee asked PP to submit EIA report including all above points for further discussion and consideration of SEAC. PP requested for time to submit above information.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to details of commercial area in consolidated statement.
3) PP to submit condition wise compliance report of earlier EC conditions
4) PP to submit architect certificate of work initiated on site as per earlier EC.
5) PP to submit comparative statement of components approved and components constructed as per earlier EC and proposed development.
6) PP to submit 6 monthly compliance report of earlier EC validated by Regional Office, MOEF&CC, Nagpur, as per MoEF & CC Circular dated 07.09.2017.
7) PP to include separate chapter on Renewable energy in EIA report. PP to submit terrace plan for installing solar panels& calculations of energy saving; PP to submit energy modelling with write-up support to this.
8) PP to include carbon footprint estimations for operation & construction phase in EIA report.
9) PP to carry out Traffic Impact Study in detail including, a. Traffic Management Plan for the development – Internal circulation with road width should be revised with showing clear road width of 6 meters and turning radius of 9 meters; PP to submit cross section of roads at four places showing clear road width 6 meter , 1.5 meter distance left from building line, spaces left for plantation, footpath, service lines etc b. Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project showing the time period taken & revise table to be submitted. c. Topographic details of roads and intersection of the surrounding roads where counts are taken, actual geometry on ground to be shown with dimensions.. d. Traffic generation values of similar development to be given by actual count by actual count as support data for assumption made to the particular project. e. PP to revise parking table mentioning parking as per DCR & parking provided actually. f. PP to submit drawing& sketches showing junction larger scale with geometry & showing traffic counts in detail and volume diagram.
10) PP to submit site specific executable and auditable EMP along with implementation plan and environmental management cell provision for construction and operation phase in EIA.
11) PP to submit Fire Tender Movement Plan showing clear road width of 6 meters and turning radius of 9 meters ; PP to submit cross section of roads at four places including UGT , OWC and DG set location showing clear road width 6 meter, 1.5 meter distance left from building line & spaces left for plantation, parking, service lines, foot paths, etc.
12) PP to submit parking layout plan for all the floors showing slope and width of the ramps.
13) PP to submit cross section of all buildings.
14) PP to submit parking area statement as per DCR.
15) PP to submit cross section of basement showing width and slope of ramp.
16) PP to submit details of basement parking.
17) PP proposes 2 Nos. of basements in each building; PP to submit its design with ventilation details; PP to submit contingency plan of basement as well as details of dewatering in basements.
18) PP to prepare consolidated report on traffic and vehicular pollution as a single chapter in EIA.
19) PP to carry out fugitive dust monitoring by using local meteorological data.
20) PP to submit waste management plan details with its transport, collection, storage and disposal for all types of wastes like hazardous waste, non-hazardous waste, solid waste, E– waste and debris/excess earth etc. PP to submit OWC details.
21) PP to submit detail debris management plan; PP should not remove the debris haphazardly & dump it on road side.
22) PP to submit disaster management plan.
23) PP to submit socio-economic infrastructure details including public transport arrangements on the site; PP to mention details of socio-economic in EIA.PP to correct socio-economic infrastructure details Consolidate Statement as per earlier EC.
24) PP to provide required amenities within layout as per the planning standards if the existing amenities within the vicinity of plot are inadequate to cater the need of the locality.
25) PP to submit phase wise development plan considering wind rose diagram.
26) PP to obtain and submit following NOC's: a) CFO NOC, b) Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.
27) PP to submit affidavit mentioning no occupancy will be given till sustained water supply to the project.
28) PP to submit design details of water treatment plant; PP to submit details of reject of WTP; PP to submit commitment to achieve ISO 10500.
29) PP to submit internal storm water drain and sewer line arrangements up to final disposal point.
30) PP to submit details of design of all STP's along with BOD load, oxygen requirement calculations and sizing of the tanks with respect to the design criteria. PP to submit detailed calculation for the disinfection of the treated STP water; PP to submit cross sectional drawing of STP's showing dimensions and ground level; PP to provide ozonation for tertiary treatment. PP to mark the area required for all STP's on master layout with dimensions
31) PP to submit details hydro geological survey report with graphs & data.
32) PP to identify sources of air pollution, PP to include mitigation measures to reduce Air pollution/Noise pollution.
33) PP to provide mandatory RG area on virgin land and submit the drawing with calculations.
34) PP to submit layout showing natural water courses on site; PP to submit total runoff calculation before and after development.
35) PP to carry out gate mass balance analysis for environmental parameters related to solid/liquid waste material coming to site, waste generated and its treatment and disposal from site.
36) PP to explore possibility to install air monitoring station on site during construction as well as operation phase for ambient air quality monitoring.
37) PP to submit undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.
38) PP to plant trees which help to increase biodiversity in the premises like fruit bearing trees etc., and insure that no trees/ shrubs that cause allergies to the residents, are planted.
39) PP to include condition of "maintenance of all Pollution Control Equipment's and functioning of Environment Monitoring Cell in their MoU with society.

FINAL RECOMMENDATION

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

Agenda of 69 th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 69 **Meeting Date** August 30, 2018

Subject: Environment Clearance for Proposed expansion of Residential and Commercial Project situated at S.NO.69/5B/2, 69/8/1 & 70/1 TO 17A/1, plot NO 2, Kothrud, Pune. Maharashtra by Kumar Beharay Properties LLP

Is a Violation Case: No

1.Name of Project	Residential and Commercial Project situated at S.NO.69/5B/2, 69/8/1 & 70/1 TO 17A/1, plot NO 2, Kothrud, Pune. Maharashtra by Kumar Beharay Properties LLP
2.Type of institution	TOR
3.Name of Project Proponent	Kumar Beharay Properties LLP
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	Residential and Commercial 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	Prior Environmental clearance vide SEAC-2010/CR 727/TC-2 dated 26-12-2011
8.Location of the project	At S.NO.69/5B/2, 69/8/1 & 70/1 TO 17A/1, Plot No 2,
9.Taluka	Haveli
10.Village	Kothrud
Correspondence Name:	Kumar Beharay Properties LLP
Room Number:	-
Floor:	3rd Floor
Building Name:	Construction House, 796/189-B
Road/Street Name:	Bhandarkar Road
Locality:	Deccan Gymkhana
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Sanctioned layout from Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: 2806/14
	Approved Built-up Area: 209911
13.Note on the initiated work (If applicable)	Building J, K,L, C having configuration P +15 along with 2 levels of parking and having construction area = 53170.81 sqm has been completed and clubhouse, building A& B having construction area 18066.04 sqm is under construction as per EC received dated 26.12.2011 for construction area 107068.11 sqm
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	CC received vide letter No. 2806/14 Dated : 17/12/2014 , OC received for C, J, K & L, Water permission received form PMC
15.Total Plot Area (sq. m.)	76199.25 Sq.m
16.Deductions	8702.00 sq.m
17.Net Plot area	67497.25 Sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 110433.60
	b) Non FSI area (sq. m.): 99477.58
	c) Total BUA area (sq. m.): 209911.18
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 110433.60
	Approved Non FSI area (sq. m.): 99477.58
	Date of Approval: 17-12-2014
19.Total ground coverage (m2)	33308.40
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	44 %
21.Estimated cost of the project	2070000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	9 buildings	P + 15	49.60
2	10 buildings	P+ P + 15	49.60
3	Unit 1-10	G + 1 Floors	9.00
4	Commercial building	P + Ground	5.10
5	Club House	G + 1 Floor	7.80

23.Number of tenants and shops	Total No. of Flats: 1150 Nos. Total No. of Shops: 28 Nos.
24.Number of expected residents / users	Residents : 5750 Nos Shops: 275 Nos. Total -6025
25.Tenant density per hectare	170
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 Mt wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.0 Mt
29.Existing structure (s) if any	-
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	523
	Recycled water - Flushing (CMD):	266
	Recycled water - Gardening (CMD):	60
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	849
	Fire fighting - Underground water tank(CMD):	660
	Fire fighting - Overhead water tank(CMD):	180
	Excess treated water	241
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	523
	Recycled water - Flushing (CMD):	266
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	789
	Fire fighting - Underground water tank(CMD):	660
	Fire fighting - Overhead water tank(CMD):	180
	Excess treated water	301
Details of Swimming pool (If any)	Rectangular pool area- 112 sqm , water depth – 1.17 m	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	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:**	9m to 25m below ground level
	Size and no of RWH tank(s) and Quantity:	1x 65 cum
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	22 No's of Percolation Pits
	Size of recharge pits :	1.5 m x 3.0 m
	Budgetary allocation (Capital cost) :	22 lakhs
	Budgetary allocation (O & M cost) :	2.0 Lakhs
	Details of UGT tanks if any :	Domestic Water Tank 519 cum Flushing Water Tank 261 cum Fire Water Tank 660 cum Rain Water Harvesting Tank 65 cum
35.Storm water drainage	**Natural water drainage pattern:**	towards east side of the plot
	Quantity of storm water:	0.98 cum/sec
	Size of SWD:	0.60 x 0.65 m
Sewage and Waste water	**Sewage generation in KLD:**	631 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	3 nos of STP having cumulative capacity of 710 KLD (300 KLD existing)
	Location & area of the STP:	Ground Level
	Budgetary allocation (Capital cost):	1.5 Crore
	Budgetary allocation (O & M cost):	15 lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Empty Cement Bags, Steel, sand, packaging Material, Aggregates
	Disposal of the construction waste debris:	1. Empty cement bags Use of bulkers eliminates cement bags 2.Steel Steel cut pieces shall be used as spacers and chairs in the structure and wastage of steel (balance non usable steel of odd lengths) is sent for recycling . 3.Sand Wastage of sand will be used for bedding for flooring purpose. They shall also be used for backfilling and filler material for levelling of internal roads and pavements.4. Packaging material To be sent for recycling. 5. Aggregates Shall be used in road pavement an
Waste generation in the operation Phase:	**Dry waste:**	1198 Kg/day
	Wet waste:	1746 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	35 kg/day
	Others if any:	E- waste will be handed over to MPCB authorized dealers

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorize recycler for further handling and disposal.
	Wet waste:	Will be converted to compost using Mechanical composter
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	shall be used as a manure
	Others if any:	E- waste will be handed over to MPCB authorized dealers
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	125 Sq.m
	Area for machinery:	6.0 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18 Lakhs
	O & M cost:	3.6 lakhs/Annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	RG on ground -7702sq.mt
	No of trees to be cut :	8
	Number of trees to be planted :	750 No's
	List of proposed native trees :	Same as below
	Timeline for completion of plantation :	By the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Adina cordofolia	Haldu	24	flowering plant
2	Albizzia lebbeck	Siris tree	30	Evergreen tree
3	Alstonia scholaris	devil tree	47	Evergreen tree
4	Azadirachta indica	Neem	45	Medicinal tree
5	Bauhinia purpurea	Purple orchid tree	52	flowering plant
6	Bauhinia racemosa	apta	26	Medicinal tree
7	Butea monosperma	flame-of-the-forest	25	flowering plant
8	Cassia fistula	Golden shower tree	34	flowering plant
9	Cocus nucifera	coconut tree	15	Fruit bearing
10	Ficus amplissima	Chinese Banyan	4	Evergreen tree
11	Grewia tiliaefolia	Dhamani	25	Evergreen tree
12	Hardwckia binata	Anjan	25	Evergreen tree
13	Khaya grandis	Tondli	19	Fruit bearing
14	Lagerstromia reginea/ Speciosa	Pride of India	34	flowering plant
15	Madhuka longifolia	Mahua	15	flowering plant
16	Mangifera indica	Mango	75	Fruit bearing
17	Michelia champaka	Champa	11	Evergreen tree
18	Mimusops elengi	Spanish cherry	12	Evergreen tree
19	Pterocarpus marsupium	bibla	34	Evergreen tree
20	Pterospermum acerifolium	Kanak Champa	18	Evergreen tree
21	Populus spp	Cottonwood	24	flowering plant
22	Saraca indica	Ashoka tree	16	Evergreen tree
23	Schleichera oleosa	gum lac tree	51	Evergreen tree
24	Schrebera sweitenioides	Mokha	29	Evergreen tree
25	Sterculia urens	ghost tree	25	Evergreen tree
26	Terminalia arjuna	arjun tree	21	Evergreen tree
27	Zizyphus mauritiana	Chinese date	14	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	Plumeria alba	3.00	-
2	Bignoniaj megapotamica	3.00	-
3	Cordia S bestena	3.00	-
4	Lagerstroemia flos reginae	3.00	-
5	Cassia fistula	3.00	-
6	Tabebuia rosea	3.00	-
7	Michelia champaca	3.00	-
8	Plumeria rubra	3.00	-
9	Bauhinia tomentosa	3.00	-
10	Bakul	3.00	-
11	Parijatak	3.00	-
12	Lagerstroemia thorelli	3.00	-
13	Bauhinia blackiana	3.00	-
14	Plumbago capansis blue	0.30	-
15	Tecoma rosea	0.30	-
16	Spider lily green	0.30	-
17	Stachytarpheta pink	0.30	-
18	Stachytarpheta blue	0.30	-
19	Lantana camara white	0.15	-
20	Jatropha variegated	0.30	-
21	Oleander dwarf pink	0.30	-
22	Rose red	0.30	-
23	Rose white	0.30	-
24	Aboli	0.30	-
25	Hibiscus viceroy red	0.45	-
26	Allamanda dwarf yellow	0.30	-
27	Mussaenda red	0.45	-
28	Kamini	0.45	-
29	Tagar single	0.45	-
30	Lantana red dwarf	0.15	-
31	Hamelia patens dwarf	0.30	-
32	Oleander single red	0.45	-
33	Hibiscus lafrance pink	0.45	-
34	Ratrani	0.45	-
35	Sontakka	0.45	-
36	Mogra	0.30	-
37	Mogramadanban	0.30	-
38	-Henna	0.45	-
39	-Adulsa	0.45	-
40	Lemon grass	0.45	-
41	Tulsi	0.30	-
42	Guggul	0.30	-

43	Mint	0.30	-
44	Ginger	0.30	-
45	Citronella grass	0.45	-
46	Ixora hybrid pink	0.30	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	500 kVA
	DG set as Power back-up during construction phase	82.5 kVA
	During Operation phase (Connected load):	17166 kW
	During Operation phase (Demand load):	3724 kW
	Transformer:	8 x 630 kVA
	DG set as Power back-up during operation phase:	2 x400 kVA & 1x 250 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Energy efficient LED's which give approx. 30% more light output for the same watts consumed and therefore require less nos. of fixtures
• Provision of solar panels for common area lighting
• Maintaining the power factor between 0.95 lag and 0.98 lag for common area loads.
• Maintaining lighting power density as per ECBC standard in common areas and recreation facility.
• Astronomical switching of outdoor lighting.
• Proposing use of VFD's (Variable Frequency Drive) for all motors used in lifts and use of high efficiency pumps for Plumbing, Firefighting system.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving	7.5 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	70.0 Lakhs
	O & M cost:	5.0 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air environment	Water Sprinkling, Green Belt Development, Covered storage area	15.0
2	Noise Environment	Site Baricades and Green Belt Developments	12.0
3	Water Environment	Modular STP , Drainage with sedimentation tanks	10.0
4	Good Health Practices	Site Sanitation & Health Care	12.0
5	Environment Monitoring	Air, water ,noise soil monitoring during construction phase	14.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water harvesting	percolation pits and Tank	22.0	2.0
2	Solid Waste management	Mechanical Composter, waste segregation	18.0	3.6
3	Waste water Management	Sewage Treatment Plant	150.0	15
4	Landscaping	Tree Plantation	49.0	5.0
5	energy saving	solar and other energy efficient appliances	70.0	5.0

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Acess from 18.00 M wide Dp road (appropriate no. of entry and exit)

Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	2 No's podium 41245.17 sq.m
	Total Parking area:	62600.87 sqm
	Area per car:	30.00 sqm
	Area per car:	30.00 sqm
	Number of 2-Wheelers as approved by competent authority:	2899
	Number of 4-Wheelers as approved by competent authority:	1405
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6.0
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable Not within 15.0 km from project boundary
	Category as per schedule of EIA Notification sheet	8 (b) B1
	Court cases pending if any	None
	Other Relevant Informations	Building J, K,L, C having configuration P +15 along with 2 levels of parking and having construction area = 53170.81 sqm has been completed and clubhouse , building A& B having construction area 18066.04 sqm is going on as per EC received dated 26.12.2011 for construction area 107068.11 sqm
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	22-05-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed expansion of Residential and Commercial Project situated at S.NO.69/5B/2, 69/8/1 & 70/1 TO 17A/1, plot NO 2, Kothrud, Pune. by Kumar Beharay Properties LLP.

DECISION OF SEAC

PP remains absent

SEAC decided to defer the proposal

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 69 th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 69 **Meeting Date** August 30, 2018

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

Is a Violation Case: No

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

22.Number of buildings & its configuration

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

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

23.Number of tenants and shops	8737 tenaments , 18 bunglows and 1106 offices/ retail Shops
24.Number of expected residents / users	Residential 43,775 users Commercial 28,959 users
25.Tenant density per hectare	Tenant Density 1046/hec Tenement Density 209/ hec
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Access from 30m Mahalunge Road, Nearest fire station Blue ridge fire station approx. 1 km.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	As per earlier EC Phase 1 of Sector R1 completed and Phase II of sector R1 , School building , E1 Retail shopping Building is under construction.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Mula River Irrigation Department, Govt of Mahatrashtra
	Fresh water (CMD):	4723 m3/day
	Recycled water - Flushing (CMD):	2530 m3/day
	Recycled water - Gardening (CMD):	732 m3/day
	Swimming pool make up (Cum):	5 m3/day
	Total Water Requirement (CMD) :	7990 m3/day
	Fire fighting - Underground water tank(CMD):	2750 m3/day
	Fire fighting - Overhead water tank(CMD):	20000 lit/building
	Excess treated water	3179 m3/day
Wet season:	**Source of water**	Mula River Irrigation Department, Govt of Mahatrashtra
	Fresh water (CMD):	4723 m3/day
	Recycled water - Flushing (CMD):	2530 m3/day
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	5 m3/day
	Total Water Requirement (CMD) :	7258 m3/day
	Fire fighting - Underground water tank(CMD):	2750 m3/day
	Fire fighting - Overhead water tank(CMD):	20000 lit/building
	Excess treated water	3911 m3/day
Details of Swimming pool (If any)	Water requirement for make up : 5kld a) PH-7.0 to 7.6 b)Chlorine Content -0.8 to 1.0 ppm Residual Chlorine in pool c) Disinfection Treatment - With Ozone	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	Pre Monsoon 12-15 mt bgl Post Monsoon 4 to 5 mt bgl
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	46
	Size of recharge pits :	2m X 1 m X 2m
	Budgetary allocation (Capital cost) :	Rs 46,00,000 /-
	Budgetary allocation (O & M cost) :	Rs 5,00,000 /-
	Details of UGT tanks if any :	Total UGT Capacity of the Project 13640 KLD
35.Storm water drainage	Natural water drainage pattern:	Natural water drainage pattern: The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge pits
	Quantity of storm water:	264 m3/Min
	Size of SWD:	1.5 m dia
Sewage and Waste water	Sewage generation in KLD:	6441 KLD
	STP technology:	Engineered Wetland
	Capacity of STP (CMD):	6500 KLD
	Location & area of the STP:	On ground, Sector wise STPs are Provided also ETP of 1 KLD will be provide for health care.
	Budgetary allocation (Capital cost):	Rs 21,80,00,000 /-
	Budgetary allocation (O & M cost):	Rs 1,15,22,000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Dry waste (Kg/day): 60 kg/day -Wet waste (Kg/day): 60 kg/day –Total waste generated: 120 Kg/day
	Disposal of the construction waste debris:	The Construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling
Waste generation in the operation Phase:	Dry waste:	13152 kg/day
	Wet waste:	16038 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	8
	STP Sludge (Dry sludge):	773 kg/day
	Others if any:	e waste : 140 kg/day

Mode of Disposal of waste:	**Dry waste:**	Will be segregated and handed over to authorized Vendor
	Wet waste:	Wet waste will be treated in Organic Waste Converter, sector wise OWC has been proposed
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Will be segregated and handed to Authorized Biomedical Waste vendor
	STP Sludge (Dry sludge):	Dried sludge from STP will be used as manure
	Others if any:	e waste will be handover to authorized e waste Vendor
Area requirement:	**Location(s):**	On ground, Sector wise OWCs are Proposed
	Area for the storage of waste & other material:	263 sq m
	Area for machinery:	1074 sq m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 4,20,25,000
	O & M cost:	Rs 86,88,211

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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

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

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

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

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

Serial Number	Name	C/C Distance	Area m2
1	Raphis Palm	0.60	125
2	Allamanda yellow	0.45	75
3	Asparagus Sprengeri	0.30	60
4	Ixora red	0.30	75
5	Rhoeo	0.23	50
6	Russelia Red	0.30	50
7	Areca palm	0.60	50
8	Euphorbia carcassana	0.45	75

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	52940 kW
	During Operation phase (Demand load):	39411 kVA
	Transformer:	63 x 630 kva
	DG set as Power back-up during operation phase:	25 x 500 kva, 8 x 400 kva, 4 x 300 kva, 6 x 250 kva, 4 x 140 kva
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	YES

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

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

50.Details of pollution control Systems

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

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

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

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Environment Clearance for Integrated Township at S no 40-47 at Mhalunge talukaMulshi Dist Pune by Mahalunge Land Developers LLP.

DECISION OF SEAC

After deliberation, Committee asked PP to submit EIA report including all above points for further discussion and consideration of SEAC. PP requested for time to submit above information.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to details of commercial area in consolidated statement.
3) PP to submit condition wise compliance report of earlier EC conditions.
4) PP to submit architect certificate of work initiated on site as per earlier EC.
5) PP to submit comparative statement of components approved and components constructed as per earlier EC and proposed development.
6) PP to submit 6 monthly compliance report of earlier EC validated by Regional Office, MOEF&CC, Nagpur, as per MoEF & CC Circular dated 07.09.2017.
7) PP to include separate chapter on Renewable energy in EIA report. PP to submit terrace plan for installing solar panels& calculations of energy saving; PP to submit energy modelling with write-up support to this.
8) PP to include carbon footprint estimations for operation & construction phase in EIA report.
9) PP to carry out Traffic Impact Study in detail including, a. Traffic Management Plan for the development – Internal circulation with road width should be revised with showing clear road width of 6 meters and turning radius of 9 meters; PP to submit cross section of roads at four places showing clear road width 6 meter , 1.5 meter distance left from building line, spaces left for plantation, footpath, service lines etc b. Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project showing the time period taken & revise table to be submitted. c. Topographic details of roads and intersection of the surrounding roads where counts are taken, actual geometry on ground to be shown with dimensions.. d. Traffic generation values of similar development to be given by actual count by actual count as support data for assumption made to the particular project. e. PP to revise parking table mentioning parking as per DCR & parking provided actually. f. PP to submit drawing& sketches showing junction larger scale with geometry & showing traffic counts in detail and volume diagram.
10) PP to submit site specific executable and auditable EMP along with implementation plan and environmental management cell provision for construction and operation phase in EIA.
11) PP to submit Fire Tender Movement Plan showing clear road width of 6 meters and turning radius of 9 meters ; PP to submit cross section of roads at four places including UGT , OWC and DG set location showing clear road width 6 meter, 1.5 meter distance left from building line & spaces left for plantation, parking, service lines, foot paths, etc.
12) PP to submit parking layout plan for all the floors showing slope and width of the ramps.
13) PP to submit cross section of all buildings.
14) PP to submit parking area statement as per DCR.
15) PP to submit cross section of basement showing width and slope of ramp.
16) PP to submit details of basement parking.
17) PP proposes 2 Nos. of basements in each building; PP to submit its design with ventilation details; PP to submit contingency plan of basement as well as details of dewatering in basements.
18) PP to prepare consolidated report on traffic and vehicular pollution as a single chapter in EIA.
19) PP to carry out fugitive dust monitoring by using local meteorological data.
20) PP to submit waste management plan details with its transport, collection, storage and disposal for all types of wastes like hazardous waste, non-hazardous waste, solid waste, E– waste, and debris/excess earth etc.;PP to submit OWC details.
21) PP to submit detail debris management plan; PP should not remove the debris haphazardly & dump it on road side.
22) PP to submit disaster management plan.
23) PP to submit socio-economic infrastructure details including public transport arrangements on the site; PP to mention details of socio-economic in EIA.PP to correct socio-economic infrastructure details Consolidate Statement as per earlier EC.
24) PP to provide required amenities within layout as per the planning standards if the existing amenities within the vicinity of plot are inadequate to cater the need of the locality.
25) PP to submit phase wise development plan considering wind rose diagram.
26) PP to obtain and submit following NOC's: a) CFO NOC, b) Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.
27) PP to submit affidavit mentioning no occupancy will be given till sustained water supply to the project.
28) PP to submit design details of water treatment plant; PP to submit details of reject of WTP; PP to submit commitment to achieve ISO 10500.
29) PP to submit internal storm water drain and sewer line arrangements up to final disposal point.
30) PP to submit details of design of all STP's along with BOD load, oxygen requirement calculations and sizing of the tanks with respect to the design criteria. PP to submit detailed calculation for the disinfection of the treated STP water; PP to submit cross sectional drawing of STP's showing dimensions and ground level; PP to provide zonation for tertiary treatment. PP to mark the area required for all STP's on master layout with dimensions
31) PP to submit details hydro geological survey report with graphs & data.
32) PP to identify sources of air pollution, PP to include mitigation measures to reduce Air pollution/Noise pollution.
33) PP to provide mandatory RG area on virgin land and submit the drawing with calculations.
34) PP to submit layout showing natural water courses on site; PP to submit total runoff calculation before and after development.
35) PP to carry out gate mass balance analysis for environmental parameters related to solid/liquid waste material coming to site, waste generated and its treatment and disposal from site.
36) PP to explore possibility to install air monitoring station on site during construction as well as operation phase for ambient air quality monitoring.
37) PP to submit undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.
38) PP to plant trees which help to increase biodiversity in the premises like fruit bearing trees etc., and insure that no trees/ shrubs that cause allergies to the residents, are planted.
39) PP to include condition of "maintenance of all Pollution Control Equipment's and functioning of Environment Monitoring Cell in their MoU with society.
40) PP to submit CER details.

FINAL RECOMMENDATION

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

Agenda of 69 th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 69 **Meeting Date** August 30, 2018

Subject: Environment Clearance for Environment Clearance for “8(b)” Township and Area development

Is a Violation Case: No

1.Name of Project	Proposed “Solitaire world” project
2.Type of institution	Private
3.Name of Project Proponent	M/s. Classic Promoters & Builders Pvt. Ltd.
4.Name of Consultant	GREEN CIRCLE, INC
5.Type of project	Residential & Commercial
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	Survey no. 578/1/2, 578/1/3
9.Taluka	Haveli
10.Village	Bibvewadi
Correspondence Name:	Mr. Vilas Tambe
Room Number:	-
Floor:	Level 8
Building Name:	Solitaire World
Road/Street Name:	Mumbai Bangalore Highway
Locality:	Baner
City:	Pune 411015, Maharashtra
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	CC/2439/17 Dt.21/12/2017
	IOD/IOA/Concession/Plan Approval Number: CC/2439/17 Dt.21/12/2017
	Approved Built-up Area: 180910.78
13.Note on the initiated work (If applicable)	only excavation as per old EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	PMC
15.Total Plot Area (sq. m.)	66309.00 sq. m
16.Deductions	18134.05 sq.m
17.Net Plot area	48174.95 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 180910.78
	b) Non FSI area (sq. m.): 180440.41
	c) Total BUA area (sq. m.): 361351.19
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 180910.78
	Approved Non FSI area (sq. m.): 58656.39
	Date of Approval: 21-12-2017
19.Total ground coverage (m2)	18214.60
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	35
21.Estimated cost of the project	10511567000

22.Number of buildings & its configuration

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

1	A-Tower	3B + Ground + 30 Floor	118.50 m
2	W1-Tower	2B + ground+ 30 Floor	101 m
3	W2-Tower	2B + ground + 30 Floor	101 m
4	W3-Tower	2B + ground+ 30 Floor	101 m
5	W4-Tower	3B + Podium + 30	101 m

23.Number of tenants and shops	world plaza commercial,basement-1,supermarket ground floor-74 shop,2-restaurants,1 cinema with 8 screen first,16 shops,7-restaurants & 1- family entertainment ,second-7,sports club & 1-restaurant,SBH 1 contain 259 nos.of offices,SBH2 contain 372 no. of offices,residential 4 towers-718 flat's
24.Number of expected residents / users	11889 (Floating Population) + 11355 (Fixed Population)
25.Tenant density per hectare	NA (as per new DCR) (PMC Rule)
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 & 30 wide DP road from the Nearest Fire station (1.0 km) to the proposed building abutting to site.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	No
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC Water Supply
	Fresh water (CMD):	719.55 KLD
	Recycled water - Flushing (CMD):	460.14 KLD
	Recycled water - Gardening (CMD):	130.00 KLD
	Swimming pool make up (Cum):	18.5 KLD
	Total Water Requirement (CMD) :	1328.19 KLD
	Fire fighting - Underground water tank(CMD):	1510 KLD
	Fire fighting - Overhead water tank(CMD):	160 KLD
	Excess treated water	494.49 KLD
Wet season:	**Source of water**	PMC Water Supply
	Fresh water (CMD):	719.55KLD
	Recycled water - Flushing (CMD):	460.14 KLD
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1179.69 KLD
	Fire fighting - Underground water tank(CMD):	1510 KLD
	Fire fighting - Overhead water tank(CMD):	160 KLD
	Excess treated water	642.99 KLD
Details of Swimming pool (If any)	Size : 25 x 13 x 1.6 m	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	1328.19	1328.19	Not applicable	1000	1000	Not applicable	800	800

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	20 to 22 m bgl
	Size and no of RWH tank(s) and Quantity:	100 cubic metre
	Location of the RWH tank(s):	Residential
	Quantity of recharge pits:	15 no.
	Size of recharge pits :	2.0 x 2.0 x 2.0 m
	Budgetary allocation (Capital cost) :	30 lacs
	Budgetary allocation (O & M cost) :	3 lacs
	Details of UGT tanks if any :	(1) 700 cubic meter (2) 300 cubic meter
35.Storm water drainage	**Natural water drainage pattern:**	S to N
	Quantity of storm water:	411.4
	Size of SWD:	160 mm
Sewage and Waste water	**Sewage generation in KLD:**	1050 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	3 nos. of STP (capacity: 290 KLD, 310 KLD, 610KLD)
	Location & area of the STP:	STP 1 (for W 02 & W03) near OWC & STP 2 and STP 3 near tower W1
	Budgetary allocation (Capital cost):	152 Lakhs
	Budgetary allocation (O & M cost):	20.00 Lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Solid waste expected to be generated during construction phase will comprise of used bags, bricks, concrete, MS rods, tiles, wood etc.
	Disposal of the construction waste debris:	Entire construction waste will be handed over to authorized vendors
Waste generation in the operation Phase:	**Dry waste:**	2086.62. kg/day
	Wet waste:	3129.93 kg/day
	Hazardous waste:	Used oil from DG sets, which will be carefully stored in HDPE drums in isolated covered facility
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	2400 Kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be Handed over to Municipal Corporation for further handling & disposal purpose.
	Wet waste:	Will be converted to bio-manure through Organic Waste Processor. Generated manure will be used for gardening.
	Hazardous waste:	The used oil will be sold to re-processor authorized by MPCB. Suitable care will be taken, so that spills /leaks of spent oil from storage are avoided.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	will be used as manure for landscaping after drying.
	Others if any:	NA
Area requirement:	**Location(s):**	Location of Organic Waste Processor: near STP (for W-02 & 03)
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 150.88 Lacs
	O & M cost:	Rs. 20.72 Lacs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	BOD 3days @27degC	mg/l	200 - 250	<10	10
2	COD	mg/l	510	94	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	Used oil from DG sets	5.1	Litres/yr	-	5200	5200	re-processor authorized by MPCB

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	2 x 125 KVA (D.G set-Existing)	HSD	2	2- 3.5	-	400
2	14 Nos. x 1250 KVA (Proposed- D.G set)	HSD	12	2 - 3.5	-	400

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	HSD	HSD
41.Source of Fuel		Authorized Dealer		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	21688.88 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	PROPOSED LIST OF NATIVE TREES: 598 + PROPOSED LIST OF FRUIT TREES: 72
	List of proposed native trees :	598
	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	bahawa	90	Drought tolerant ,ornamental & medicinal plant
2	Anthocephallus cadamba	kadamb	25	-
3	saraca indica	Sita ashok	101	Evergreen medicinal plant
4	Bauhinia racemosa	Apta	60	-
5	Lagerstromia speciosa	Tamhan	22	Medicinal value, Native species
6	Albizia lebbeck	Shirish	39	-
7	Bauhinia blackiana	kanchan raj	127	-
8	Erythrina variegata	Pangara	115	-
9	Nyctanthes arbortristic	parijatak	19	-
10	Mangifera indica	mango	67	Evergreen and bird attracting tree
11	Psidiumguajava	Guava	5	-
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	Asparagus myerii	-	-
2	Plumbago Capensis	-	-
3	Bambusa	-	-
4	Cordyline terminalis mahatma	-	-
5	Cyperus alternifolius	-	-
6	Pennisetum rueppeli	-	-
7	Mussaenda erythrophylla	-	-
8	Schefflera Arboricola	-	-
9	Dracaena marginata tricolor	-	-

10	Galphimia glauca	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL + D.G set (partial)
	During Construction Phase: (Demand Load)	220 KW
	DG set as Power back-up during construction phase	as a back up only
	During Operation phase (Connected load):	18568.06 KW
	During Operation phase (Demand load):	10843.43 KW
	Transformer:	4 X 1500 KVA
	DG set as Power back-up during operation phase:	2 nos.x 1250 KVA & 12 nos. x 1250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Use of LED Lamps for common areas
Use of Timers & daylight sensors for common area lighting
Solar Panel System

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of LED lamps in common area	8 %
2	Common area / external lighting on timers	2 %
3	Multiple circuits for lighting	2 %
4	Group control for elevators	1.5 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage Treatment plant	Not applicable	Sewage Treatment Plant
Organic Waste Processor	Not applicable	Organic Waste Processor

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25 Cr.
	O & M cost:	2.5 Cr.

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	Particulate matter	5
2	Site Sanitation & Safety	-	8
3	Environmental Monitoring	Air, water, noise	5
4	Disinfection	-	4
5	Health Check up	All relevant parameters	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	Wastewater	STP Cost	1.5 crores	13 Lacs
2	Solid waste	Solid Waste Management	52 lacs	5 Lacs
3	Green area	Green Belt development	5 crores	50 lacs
4	Groundwater recharge	Rain water harvesting	1 crore	10 lacs
5	Energy	Energy Efficient equipments	10 crores	1 crore
6	Air, water, noise, soil	Environmental monitoring	-	6 lacs

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	3 * 53195.93
	Number and area of podia:	1 *10120.40
	Total Parking area:	53195.93 sq. m.
	Area per car:	28
	Area per car:	28
	Number of 2-Wheelers as approved by competent authority:	6832
	Number of 4-Wheelers as approved by competent authority:	3512
	Public Transport:	Auto rickshaw stand within 15m from entrance gate.
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category B, 8(b).
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Environment Clearance for “8(b)” Township and Area development Proposed “Solitaire world” project at Survey no.578/1/2, 578/1/3 by M/s. Classic Promoters & Builders Pvt. Ltd.

DECISION OF SEAC

After deliberation, Committee asked PP to submit EIA report including all above points for further discussion and consideration of SEAC. PP requested for time to submit above information.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to details of commercial area in consolidated statement.
3) PP to submit condition wise compliance report of earlier EC conditions.
4) PP to submit architect certificate of work initiated on site as per earlier EC.
5) PP to submit comparative statement of components approved and components constructed as per earlier EC and proposed development.
6) PP to submit 6 monthly compliance report of earlier EC validated by Regional Office, MOEF&CC, Nagpur, as per MoEF & CC Circular dated 07.09.2017.
7) PP to include separate chapter on Renewable energy in EIA report. PP to submit terrace plan for installing solar panels& calculations of energy saving; PP to submit energy modelling with write-up support to this.
8) PP to include carbon footprint estimations for operation & construction phase in EIA report.
9) PP to carry out Traffic Impact Study in detail including, a. Traffic Management Plan for the development – Internal circulation with road width should be revised with showing clear road width of 6 meters and turning radius of 9 meters; PP to submit cross section of roads at four places showing clear road width 6 meter , 1.5 meter distance left from building line, spaces left for plantation, footpath, service lines etc b. Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project showing the time period taken & revise table to be submitted. c. Topographic details of roads and intersection of the surrounding roads where counts are taken, actual geometry on ground to be shown with dimensions.. d. Traffic generation values of similar development to be given by actual count by actual count as support data for assumption made to the particular project. e. PP to revise parking table mentioning parking as per DCR & parking provided actually. f. PP to submit drawing& sketches showing junction larger scale with geometry & showing traffic counts in detail and volume diagram.
10) PP to submit site specific executable and auditable EMP along with implementation plan and environmental management cell provision for construction and operation phase in EIA.
11) PP to submit Fire Tender Movement Plan showing clear road width of 6 meters and turning radius of 9 meters ; PP to submit cross section of roads at four places including UGT , OWC and DG set location showing clear road width 6 meter, 1.5 meter distance left from building line & spaces left for plantation, parking, service lines, foot paths, etc.
12) PP to submit parking layout plan for all the floors showing slope and width of the ramps.
13) PP to submit cross section of all buildings.
14) PP to submit parking area statement as per DCR.
15) PP to submit cross section of basement showing width and slope of ramp.
16) PP to submit details of basement parking.
17) PP proposes 2 Nos. of basements in each building; PP to submit its design with ventilation details; PP to submit contingency plan of basement as well as details of dewatering in basements.
18) PP to prepare consolidated report on traffic and vehicular pollution as a single chapter in EIA.
19) PP to carry out fugitive dust monitoring by using local meteorological data.
20) PP to submit waste management plan details with its transport, collection, storage and disposal for all types of wastes like hazardous waste, non-hazardous waste, solid waste, E– waste and debris/excess earth etc.;PP to submit OWC details.
21) PP to submit detail debris management plan; PP should not remove the debris haphazardly & dump it on road side.
22) PP to submit disaster management plan.
23) PP to submit socio-economic infrastructure details including public transport arrangements on the site; PP to mention details of socio-economic in EIA.PP to correct socio-economic infrastructure details Consolidate Statement as per earlier EC.
24) PP to provide required amenities within layout as per the planning standards if the existing amenities within the vicinity of plot are inadequate to cater the need of the locality.
25) PP to submit phase wise development plan considering wind rose diagram.
26) PP to obtain and submit following NOC's: a) CFO NOC, b) Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.
27) PP to submit affidavit mentioning no occupancy will be given till sustained water supply to the project.
28) PP to submit design details of water treatment plant; PP to submit details of reject of WTP; PP to submit commitment to achieve ISO 10500.
29) PP to submit details of design of all STP's along with BOD load, oxygen requirement calculations and sizing of the tanks with respect to the design criteria. PP to submit detailed calculation for the disinfection of the treated STP water; PP to submit cross sectional drawing of STP's showing dimensions and ground level; PP to provide ozonation for tertiary treatment. PP to mark the area required for all STP's on master layout with dimensions
30) PP to submit internal storm water drain and sewer line arrangements up to final disposal point.
31) PP to submit details hydro geological survey report with graphs & data.
32) PP to identify sources of air pollution, PP to include mitigation measures to reduce Air pollution/Noise pollution.
33) PP to provide mandatory RG area on virgin land and submit the drawing with calculations.
34) PP to submit layout showing natural water courses on site; PP to submit total runoff calculation before and after development.
35) PP to carry out gate mass balance analysis for environmental parameters related to solid/liquid waste material coming to site, waste generated and its treatment and disposal from site.
36) PP to explore possibility to install air monitoring station on site during construction as well as operation phase for ambient air quality monitoring.
37) PP to submit undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.
38) PP to plant trees which help to increase biodiversity in the premises like fruit bearing trees etc., and insure that no trees/ shrubs that cause allergies to the residents, are planted.
39) PP to include condition of "maintenance of all Pollution Control Equipment's and functioning of Environment Monitoring Cell in their MoU with society.

FINAL RECOMMENDATION

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

Agenda of 69 th Meeting of SEAC-3 (Day-2)

SEAC Meeting number: 69 **Meeting Date** August 30, 2018

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

Is a Violation Case: No

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

22.Number of buildings & its configuration

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

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

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	For easy access of fire tender 9m turning radius will be provided.
29.Existing structure (s) if any	Buildings of Sector R1 and R2 are under construction
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Irrigation Department, Govt of Mahatrashtra
	Fresh water (CMD):	4360 for res.+ 119 for car washing
	Recycled water - Flushing (CMD):	2320
	Recycled water - Gardening (CMD):	715
	Swimming pool make up (Cum):	13
	Total Water Requirement (CMD) :	7527
	Fire fighting - Underground water tank(CMD):	3125
	Fire fighting - Overhead water tank(CMD):	20 KLD for each building
	Excess treated water	2977

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

33.Details of Total water consumed

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

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

36.Solid waste Management

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

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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

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

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

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

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

47.Energy

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

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	13300000
	O & M cost:	668000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

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

b) Operation Phase (with Break-up):

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	101107.64 sqm
	Number and area of podia:	116434.69 sqm
	Total Parking area:	283803.52 sqm
	Area per car:	12.5 sqm
	Area per car:	12.5 sqm
	Number of 2-Wheelers as approved by competent authority:	10860
	Number of 4-Wheelers as approved by competent authority:	11938
	Public Transport:	Buses are propsoed
	Width of all Internal roads (m):	9m-24m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(b) Township and Area Development Projects
	Court cases pending if any	NA
	Other Relevant Informations	Proposed project is Integrated Township at Manjri
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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

DECISION OF SEAC

After deliberation, Committee asked PP to submit EIA report including all above points for further discussion and consideration of SEAC. PP requested for time to submit above information.

Specific Conditions by SEAC:

1) PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
2) PP to details of commercial area in consolidated statement.
3) PP to submit condition wise compliance report of earlier EC conditions.
4) PP to submit architect certificate of work initiated on site as per earlier EC.
5) PP to submit comparative statement of components approved and components constructed as per earlier EC and proposed development.
6) PP to submit 6 monthly compliance report of earlier EC validated by Regional Office, MOEF&CC, Nagpur, as per MoEF & CC Circular dated 07.09.2017.
7) PP to include separate chapter on Renewable energy in EIA report. PP to submit terrace plan for installing solar panels& calculations of energy saving; PP to submit energy modelling with write-up support to this.
8) PP to include carbon footprint estimations for operation & construction phase in EIA report.
9) PP to carry out Traffic Impact Study in detail including, a. Traffic Management Plan for the development – Internal circulation with road width should be revised with showing clear road width of 6 meters and turning radius of 9 meters; PP to submit cross section of roads at four places showing clear road width 6 meter , 1.5 meter distance left from building line, spaces left for plantation, footpath, service lines etc b. Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project showing the time period taken & revise table to be submitted. c. Topographic details of roads and intersection of the surrounding roads where counts are taken, actual geometry on ground to be shown with dimensions.. d. Traffic generation values of similar development to be given by actual count by actual count as support data for assumption made to the particular project. e. PP to revise parking table mentioning parking as per DCR & parking provided actually. f. PP to submit drawing& sketches showing junction larger scale with geometry & showing traffic counts in detail and volume diagram.
10) PP to submit site specific executable and auditable EMP along with implementation plan and environmental management cell provision for construction and operation phase in EIA.
11) PP to submit Fire Tender Movement Plan showing clear road width of 6 meters and turning radius of 9 meters ; PP to submit cross section of roads at four places including UGT , OWC and DG set location showing clear road width 6 meter, 1.5 meter distance left from building line & spaces left for plantation, parking, service lines, foot paths, etc.
12) PP to submit parking layout plan for all the floors showing slope and width of the ramps.
13) PP to submit cross section of all buildings.
14) PP to submit parking area statement as per DCR.
15) PP to submit cross section of basement showing width and slope of ramp.
16) PP to submit details of basement parking.
17) PP proposes 2 Nos. of basements in each building; PP to submit its design with ventilation details; PP to submit contingency plan of basement as well as details of dewatering in basements.
18) PP to prepare consolidated report on traffic and vehicular pollution as a single chapter in EIA.
19) PP to carry out fugitive dust monitoring by using local meteorological data.
20) PP to submit waste management plan details with its transport, collection, storage and disposal for all types of wastes like hazardous waste, non-hazardous waste, solid waste, E– waste and debris/excess earth etc.;PP to submit OWC details.
21) PP to submit detail debris management plan; PP should not remove the debris haphazardly & dump it on road side.
22) PP to submit disaster management plan.
23) PP to submit socio-economic infrastructure details including public transport arrangements on the site; PP to mention details of socio-economic in EIA.PP to correct socio-economic infrastructure details Consolidate Statement as per earlier EC.
24) PP to provide required amenities within layout as per the planning standards if the existing amenities within the vicinity of plot are inadequate to cater the need of the locality.
25) PP to submit phase wise development plan considering wind rose diagram.
26) PP to obtain and submit following NOC's: a) CFO NOC, b) Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.
27) PP to submit affidavit mentioning no occupancy will be given till sustained water supply to the project.
28) PP to submit design details of water treatment plant; PP to submit details of reject of WTP; PP to submit commitment to achieve ISO 10500.
29) PP to submit internal storm water drain and sewer line arrangements up to final disposal point.
30) PP to submit details of design of all STP's along with BOD load, oxygen requirement calculations and sizing of the tanks with respect to the design criteria. PP to submit detailed calculation for the disinfection of the treated STP water; PP to submit cross sectional drawing of STP's showing dimensions and ground level; PP to provide ozonation for tertiary treatment. PP to mark the area required for all STP's on master layout with dimensions
31) PP to submit details hydro geological survey report with graphs & data.
32) PP to identify sources of air pollution, PP to include mitigation measures to reduce Air pollution/Noise pollution.
33) PP to provide mandatory RG area on virgin land and submit the drawing with calculations.
34) PP to submit layout showing natural water courses on site; PP to submit total runoff calculation before and after development.
35) PP to carry out gate mass balance analysis for environmental parameters related to solid/liquid waste material coming to site, waste generated and its treatment and disposal from site.
36) PP to explore possibility to install air monitoring station on site during construction as well as operation phase for ambient air quality monitoring.
37) PP to submit undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.
38) PP to plant trees which help to increase biodiversity in the premises like fruit bearing trees etc., and insure that no trees/ shrubs that cause allergies to the residents, are planted.
39) PP to include condition of "maintenance of all Pollution Control Equipment's and functioning of Environment Monitoring Cell in their MoU with society.

FINAL RECOMMENDATION

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