Agenda 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Proposed Building Construction Project (PARK XPRESS)

Is a Violation Case: No

1.Name of Project	PARK XPRESS
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sunil Popatlal Nahar
4.Name of Consultant	ULTRATECH
5.Type of project	Housing
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	Sr. No. 5,18 & 19
9.Taluka	Haveli
10.Village	Balewadi
Correspondence Name:	Pride house
Room Number:	5th floor
Floor:	Near Pune University
Building Name:	Pride house
Road/Street Name:	Pune University road
Locality:	Ganeshkhind
City:	Pune
11.Area of the project	Pune Municipal corporation
12.IOD/IOA/Concession/Plan Approval Number	CC/3262/15, DATED - 30.12.2015 and CC/0681/17 DATED - 13.06.2017
	IOD/IOA/Concession/Plan Approval Number: CC/3262/15, DATED - 30.12.2015 and CC/0681/17 DATED - 13.06.2017
	Approved Built-up Area: 74879
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.)	59,779.99
16.Deductions	11,378.78
17.Net Plot area	48,401.21
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 74879
	b) Non FSI area (sq. m.): 66106
	c) Total BUA area (sq. m.): 140984
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 79277.69
	Approved Non FSI area (sq. m.): 62080.18
	Date of Approval: 17-11-2009
19.Total ground coverage (m2)	16,682.7
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	34.46
21.Estimated cost of the project	2300000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A-B & C D	P+8	25.65
2	Wing E-F	P+11	34.20
3	Wing G-H & Wing I- J	P+8	25.65
4	Wing K-L	B+P+13	41.30
5	Wing M-N	B+P+13	41.30
6	Wing O	B+P+13	41.30
7	Club house- No. 1	G+1	4.2
8	Wing A	G+P1+17	63.50
9	Wing B	G+ P1+17	63.50
10	Wing C	G+P1+19	68.60
11	Wing D	G+ Loft	6.35
12	Club house- No. 2	G + 1	7.0

23.Number of tenants and shops	759 nos. & 15 shops, 2 club houses
24.Number of expected residents / users	Residential 3795 nos. & 383 commercial
25.Tenant density per hectare	157
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 DP road access to buildings from Aundh Fire Station
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	We have initiated work as per Old EC
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	357
	Recycled water - Flushing (CMD):	183
	Recycled water - Gardening (CMD):	72
	Swimming pool make up (Cum):	7
	Total Water Requirement (CMD) :	619
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	200
	Excess treated water	249
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	357
	Recycled water - Flushing (CMD):	183
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	7
	Total Water Requirement (CMD) :	547
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	200
	Excess treated water	321
Details of Swimming pool (If any)	volume of Pool 1- 101 m2 x 1.2m water depth Volume of Pool 2 - 18sqm x 1.2 m water depth Total water Requirement in KLD: 619 m3/day Water requirement for make up in KLD: 7 m3/day	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	0	357	357	0	35.7	35.7	0	321.3	321.3
Domestic	0	183	183	0	18.3	18.3	0	164.7	164.7
Gardening	0	72	72	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	40-50 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	20
	Size of recharge pits :	2.9m x 2.9 x 1.65m
	Budgetary allocation (Capital cost) :	50 lacs
	Budgetary allocation (O & M cost) :	3.50Lacs
	Details of UGT tanks if any :	-
35.Storm water drainage	**Natural water drainage pattern:**	W to E
	Quantity of storm water:	312m3/day
	Size of SWD:	150 to 300mm
Sewage and Waste water	**Sewage generation in KLD:**	504
	STP technology:	MBBR & SRBR
	Capacity of STP (CMD):	120 AND 420 KLD (Above ground & Open to sky)
	Location & area of the STP:	As per layout
	Budgetary allocation (Capital cost):	114
	Budgetary allocation (O & M cost):	20.44

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	90
	Disposal of the construction waste debris:	Out of the total 68,043.0 m3 will be used within the site for backfilling and the remaining quantity will be used in other construction sites/designated C & D disposal site
Waste generation in the operation Phase:	**Dry waste:**	515.35
	Wet waste:	1203.3
	Hazardous waste:	nil
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	70 kg/day
	Others if any:	Not any

Mode of Disposal of waste:	**Dry waste:**	Hand over to authorized vendor
	Wet waste:	OWC MACHINE
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used for gardening
	Others if any:	not any
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	136 m2
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	48.07 lacs
	O & M cost:	8..13lacs

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	320	Diesel - 52.05	1	2.66	0.10	600
2	250	Diesel - 42.06	1	2.61	0.10	600
3	300	Diesel - 50.05	1	2.66	0.10	600

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	42.06	50.05	144.16
41.Source of Fuel		Near by pumps		

42.Mode of Transportation of fuel to site	By road

43.Green Belt Development	**Total RG area :**	5779.03
	No of trees to be cut :	0
	Number of trees to be planted :	678
	List of proposed native trees :	678
	Timeline for completion of plantation :	Till the completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bauhinia blakeana	HONGKONG ORCHID TREE	28	Flower bearing tree
2	Grevillea robusta	SILVER OAK	23	Evergreen tree
3	Alstonia scholaris	SAPTAPARNI	34	Evergreen tree
4	Plumeria rubra	Temple tree/pagoda tree	23	Flower bearing tree
5	Nyctanthes arbortristis	Parijat	40	Flower bearing tree
6	Caryota urens	Fish tail palm	06	Evergreen tree
7	Neolamarckia cadamba	Kadamb	50	Evergreen tree
8	Mimusops elengi	Bakul	50	Flower bearing tree
9	Azadirachta Indica	Neem	18	Evergreen tree and traditional medicinal plant
10	Bauhinia variegata	Kanchan	22	Flower bearing tree
11	Ficus Benjamin	Ficus	20	Flower bearing tree
12	Wodyetia bifurcata	Fox tail palm	197	Evergreen tree
13	Bauhinia purperea	Purple orchid tree	38	Flower bearing tree
14	Saraca Indica	Siita ashok	19	Evergreen tree
15	Cassia fistula	Bhava	12	Flower bearing tree
16	Murraya Paniculata	Kunti	79	Evergreen tree and bear scented flowers
17	Michelia Champaka	Golden chafa	19	Flower bearing tree
18	Total quantity of plants on ground	-	678	-
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)	45 KW
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	5657 KW
	During Operation phase (Demand load):	2887 KW
	Transformer:	7 Nos. X 630 KVA
	DG set as Power back-up during operation phase:	320 KVA (1 no.) 250 KVA (1 no.) 300 KVA (1 no.)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- Common area lighting with LED bulbs
- Common area lighting with LED bulbs
- Solar Water heating system
- Energy efficient pumps.
- Timer for Staircase lighting, Lift Lobby, Parking area and street lights.
- Right glass &WWR for maximum Light &Ventilation

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total saving with Solar PV (For Lighting) & Solar water heating	20.27 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
waste water	STP	STP
Garbage	OWC	OWC
DG	Stack	Stack

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	73.5 Lakhs (Solar water Heating)
	O & M cost:	1.10 Lakhs (Solar water Heating)

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water For Dust Suppression Air & Noise monitoring	1.2

2	Water Environment	Tanker water for construction Water monitoring	3.84
3	Land Environment	Site Sanitation	5.4
4	Biological Environment	Gardening	1.98
5	Socio- Economic Environment	Disinfection- Pest Control First Aid Facilities Health Check Up Creche for children Personal protective equipment	7.95

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH pits	50	3.50
2	Sewage Treatment Plant	waste water	114	20.44
3	Organic Waste Composting	garbage	48.07	8.13
4	Tree Plantation	Gardening	107.42	9.72
5	Electrical	Energy saving	73.5	1.10
6	Environment Monitoring	Environmental monitoring	0	21.70
7	Swimming Pool	-	53.75	5.4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	2
	Number and area of podia:	2
	Total Parking area:	31874.79
	Area per car:	30
	Area per car:	30
	Number of 2-Wheelers as approved by competent authority:	1660
	Number of 4-Wheelers as approved by competent authority:	643
	Public Transport:	NA
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	Not any
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	16-11-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Building Construction Project (PARK XPRESS) at 5, 18 & 19, Balewadi by PARK XPRESS.

PP submitted their application for Expansion Environmental clearance for expansion of the previous EC having total plot area of 59,779.99 Sq. Mtrs, BUA of 1,40984 Sq. Mtrs, FSI area of 74,879 Sq. Mtrs & Non FSI area is 66106 Sq.m . PP proposes to construct 11 nos. of residential buildings and 1 club house.

During the meeting the project stated that they have approached to the Environment department seeking clarification regarding proposed project on land bearing survey no. 5, 18 & 19 at Balewadi Pune. It has clarified by the Environment Department, GOM as the constructed area (i.e 1,20380.50 Sq.m) is less than mentioned in the Environmental clearance (i.e 1,41,357.87 Sq.m) granted as per EC letter dated 17.11.2009. Environment Department has also clarified that the project may not be considered as violation of EIA Notification, 2006.

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 details of STP.
2) PP to submit undertaking for Derbies management plan.
3) 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

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Residential Construction Project

Is a Violation Case: No

1.Name of Project	SILVERCREST
2.Type of institution	Private
3.Name of Project Proponent	Mahavir Realty
4.Name of Consultant	Oasis Environmental Foundation
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Gat No. 631, 632, 636
9.Taluka	Haveli
10.Village	Wagholi
Correspondence Name:	Dilip Oswal
Room Number:	E 205
Floor:	1st & 2nd
Building Name:	Thakkar House
Road/Street Name:	East Street
Locality:	Camp
City:	Pune
11.Area of the project	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	DP/BHA/Wagholi/ Gut. No. 631, 632, 636/ No. 1830/17-18/Dated 13/04/2018
	IOD/IOA/Concession/Plan Approval Number: BHA/CR.NO/1830/17-18 dated 13/04/2018
	Approved Built-up Area: 23355.17
13.Note on the initiated work (If applicable)	Construction of Wing B is completed
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	17,320.00 sqm
16.Deductions	9,479.50 sqm
17.Net Plot area	12,555.23 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 16,933.09
	b) Non FSI area (sq. m.): 11,658.68
	c) Total BUA area (sq. m.): 28591.77
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 16820.85
	Approved Non FSI area (sq. m.): 6534.32
	Date of Approval: 13-04-2018
19.Total ground coverage (m2)	1656.62
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	9.90
21.Estimated cost of the project	450000000

22.Number of buildings & its configuration

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

1	A	P + 11	34.8
2	B	P + 11	34.8
3	C	P + 11	34.8
4	Amenity Building	G + 2	9.15
5	Club House	G + 1	9.30

23.Number of tenants and shops	283
24.Number of expected residents / users	1540
25.Tenant density per hectare	250
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	45.00
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00
29.Existing structure (s) if any	B wing (P+11)
30.Details of the demolition with disposal (If applicable)	Nil

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Wagholi Grampanchayat
	Fresh water (CMD):	166
	Recycled water - Flushing (CMD):	39
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	215
	Fire fighting - Underground water tank(CMD):	135
	Fire fighting - Overhead water tank(CMD):	50000 lit. each building
	Excess treated water	153
Wet season:	**Source of water**	Wagholi Grampanchayat
	Fresh water (CMD):	166
	Recycled water - Flushing (CMD):	39
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	205
	Fire fighting - Underground water tank(CMD):	135
	Fire fighting - Overhead water tank(CMD):	50000 lit. each building
	Excess treated water	163
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	39	39	Not applicable	0	0	Not applicable	39	39
Gardening	0	10	10	0	10	10	0	10	10
Fresh water requirement	0	166	166	0	17	17	0	149	149

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.5 to 5 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	8
	Size of recharge pits :	3 mt x 3 mt x 3 mt
	Budgetary allocation (Capital cost) :	1200000
	Budgetary allocation (O & M cost) :	40000
	Details of UGT tanks if any :	Domestic UG tank capacity - 120 KL Filtered UG tank capacity - 120 Kl Flushing (Treated) UG tank capacity - 135 KL
35.Storm water drainage	**Natural water drainage pattern:**	South to North (95 - 99)
	Quantity of storm water:	432 cum/year
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	205
	STP technology:	225
	Capacity of STP (CMD):	1
	Location & area of the STP:	Please refer annexures attached with form 1, 1A.
	Budgetary allocation (Capital cost):	226000
	Budgetary allocation (O & M cost):	988000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation details 124 CUM- Top soil which will be used for landscaping, other material will be used for road leveling, land filling
	Disposal of the construction waste debris:	To authorized vendor
Waste generation in the operation Phase:	**Dry waste:**	311 kg/day
	Wet waste:	452 kg/day
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	20 Kg
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Through authorized vendor
	Wet waste:	Mechanized composting unit
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Plan enclosed with form 1, 1A
	Area for the storage of waste & other material:	5 SQM
	Area for machinery:	45 SQM
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1375000
	O & M cost:	364944

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 200 KVA	Disel	1	4.5	Not applicable	Not applicable

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Disel	0	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 :**	1850 sqm
	No of trees to be cut :	0
	Number of trees to be planted :	279
	List of proposed native trees :	Attached with Form 1, 1A
	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	13	Attracts birds, Evergreen Tree
2	Ailanthus excelsa	Maharukh	14	Ornamental
3	Ficus retusa	Nandruk	9	Shade Giving, Attracts Birds
4	Mimusops Elengi	Bakul	13	leguminous & nitrogen Fixing
5	Anthocephallus Cadamba	Kadamb	14	Attracts birds, Medicinal Uses
6	Saraca Asoka	Seeta Ashok	12	Fragrant, Evergreen, Shade giving
7	Gmelina Arborea	Shivan	9	Medical Uses
8	Azadirachta Indica	Neem	11	Used for Timber, Medicinal Uses
9	Syzgium Cumini	Jamun	9	Small Fruit Bearing Tree
10	Butea Monosperma	Palas	9	Attracts Insect
11	Albizia Lebbeck	Shirish	9	Attracts birds
12	Bauhinia Racemosa	Apta	10	Erosion Control
13	Michelia Champaca	Sonchafa	10	Tree Barks Widely used as timber
14	Bauhinia Purpurea	Gulabi Kanchan	13	indigenous medicine
15	Nyctanthes arbor-tristis	Parijatak	10	Flowers yield an essential oil similar to jasmine
16	Mangifera Indica	Mango	13	Fruit Bearing Trees
17	Erythrina Indica	Pangara	11	Attracts birds , Erosion Control
18	Citrus sp	Citrus sp	11	Fruit Bearing Trees
19	Murraya Koengii	Curry Leaf	10	Used in Indian cookery for flavoring foodstuffs
20	Bauhinia Blakiana	Kanchanraj	6	Attacked by wood borers
21	Choclopserum Religiosum	Sonsawar	5	Attracts birds , Erosion Control
22	Cordia Dichotoma	Bhokar	5	Fruit Bearing Trees
23	Dalbbergia Sisoo	Shisav	5	Attracts birds , Erosion Control
24	Ficus Arnottiana	Payar	5	Erosion Control
25	Ficus Glomurata	Umber	5	Fruit Bearing Trees
26	Phyllanthus Emblica	Awala	4	Fruit Bearing Trees
27	Pongamis Pinnata	Karanj	4	Attracts birds , Erosion Control
28	Putrnjiva Roxburghii	Putranjiva	5	Seeds yield fatty oil used for burning

29	Eegle Marmelos	Bel	4	The Unripe fruits are astringent, digestive and are useful in providing relief in diarrhea and dysentery
30	Caryota Urens	Fish Tail Palm	12	Attracts birds , Erosion Control
31	Rosa sps	Bharliya Pink	12	Attracts birds , Erosion Control
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	0	0	0

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	65
	DG set as Power back-up during construction phase	85 KVA X 1
	During Operation phase (Connected load):	1570 KW
	During Operation phase (Demand load):	1036 KW
	Transformer:	630 X 1
	DG set as Power back-up during operation phase:	200 KVA X 1
	Fuel used:	DIESEL
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

TIMER LOGIC CONTROLLER - 3 KW :1 % OF MAX .DEMAND
ELECTRONIC VVF DRIVE FOR LIFTS -10 KW : 4 % OF MAX. DEMAND
SOLAR WATER HEATER - 40 KW: 8 % OF MAX. DEMAND
LED LIGHTNING - 7 KW : 2 % OF MAX. DEMAND
% OF SAVING : 15 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	TIMER LOGIC CONTROLLER	3 KW
2	ELECTRONIC VVF DRIVE FOR LIFTS	10 KW
3	SOLAR WATER HEATER	40 KW
4	LED LIGHTNING	7 KW

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

WASTE WATER GENERATION FROM TOILET, BATHROOM	Not applicable	STP -225 CMD. TREATED WASTE WATER WILL BE RECYCLED FOR GARDENING & FLUSHING
SOLID WASTE GENERATION FROM RESIDENTIAL USE	Not applicable	MECHANIZED COMPOSTING UNIT IS PROPOSED

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	4400000
	O & M cost:	30000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	EROSION CONTROL:	DUST SUPPRESSION MEASURES & BARRICADING	5
2	SITE SAFETY	PERSONAL PROTECTIVE EQUIPMENT, NETS	5
3	SITE SANITATION	SITE SANITATION FOR LABOUR	10
4	DISINFECTION & HEALTH CHECK UP	FOR LABOUR	5
5	ENVIRONMENTAL MONITORING	-	1.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	WATER TREATMENT PLANT	FOR WATER TREATMENT	8.00	0.20
2	SEWAGE TREATMENT PLANT	STP WITH 225 CMD CAPACITY TO TREAT WASTE WATER	22.60	9.88
3	RAIN WATER HARVESTING	PROPOSED 8 NO OF RECHARGE PITS	12.00	0.50
4	STORM WATER NETWORKING	INTERNAL STORM WATER NETWORK	13.00	0.50
5	STORM WATER LINE COST	EXTERNAL LINE COST	9.50	0.40
6	DRAINAGE LINE COST	DRAINAGE LINE PIPING COST	7.25	0.40
7	SOLID WASTE MANEGMENT	MECHANIZED COMPOSTING UNIT	13.75	3.65
8	GREEN BELT DEVELOPMENT	FOR TREE PLANTATION	12.66	7.21
9	NON CONVENTIONAL ENERGY USE	SOLAR WATER HEATERS	44.00	0.30

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	01
Parking details:	**Number and area of basement:**	NIL
	Number and area of podia:	NIL
	Total Parking area:	4122 SQM
	Area per car:	30 SQM
	Area per car:	30 SQM
	Number of 2-Wheelers as approved by competent authority:	732
	Number of 4-Wheelers as approved by competent authority:	183
	Public Transport:	NIL
	Width of all Internal roads (m):	6 MT
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Project category B2; Activity under Item 8 (a) of the EIA Notification dated 14th September 2006
	Court cases pending if any	Nil

	Other Relevant Informations	Application for Environmental Clearance submitted on 29/12/2014 Case was recommended for EC in 45th SEAC III meeting (Item No. 26) case was scheduled in its 103rd SEIAA meeting, but due to some unavoidable circumstances, we were unable to attend the said meeting. Kindly reschedule the same in next meeting of SEIAA meeting
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Residential Construction Project SILVERCREST at Gat No. 631, 632, 636, Wagholi by M/s. Mahavir Realty.

PP submitted their application for prior Environmental clearance for total plot area of 17,320.00 Sq. Mtrs, FSI area of 16,933.09 Sq. Mtrs, Non FSI area of 11,658.68 Sq.m and total BUA of 28,591.77 Sq. Mtrs. PP proposes to construct total 3 residential buildings with 1 Amenity building and one 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

The case has been already recommended to SEIAA .

SEAC decided to transfer the proposal online to SEIAA for prior environmental clearance.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Construction of EWS (PMAY) LIG and HIG (RH) Type Buildings at S.No. 116/1 to 5 at Mauza Waddhamna, Nagpur.

Is a Violation Case: No

1.Name of Project	Construction of EWS (PMAY) LIG and HIG (RH) Type Buildings
2.Type of institution	Government
3.Name of Project Proponent	Nagpur Housing and Area Development Board (A MHADA Unit)
4.Name of Consultant	Fine Envirotech Engineers
5.Type of project	MHADA
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, Environmental clearance obtained from Environment Department, Maharashtra on 6th February 2017 vide letter no: SEAC II-2014/CR-249/TC-3
8.Location of the project	S.No. 116/1 to 5 at Mauza Waddhamna, Nagpur.
9.Taluka	Mauza
10.Village	Waddhamna
Correspondence Name:	Nagpur Housing and Area Development Board (A MHADA Unit)
Room Number:	NA
Floor:	NA
Building Name:	Gruha Nirman Bhawan
Road/Street Name:	Temple Road
Locality:	Civil Line
City:	Nagpur
11.Area of the project	Nagpur Improvement Trust (NIT), Nagpur
12.IOD/IOA/Concession/Plan Approval Number	Plan is approved by Nagpur Metropolitan Region Development Authority dated: 27/04/2018
	IOD/IOA/Concession/Plan Approval Number: KA.ABHI/E.ABHI/222
	Approved Built-up Area: 81926.368
13.Note on the initiated work (If applicable)	Total constructed area: 16872.42 sq.mt (FSI area :15,827.68 sq.mt and non FSI area -1044.74 sq.mt)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	90879.891 sq.mt.
16.Deductions	36342.041 sq.mt.
17.Net Plot area	54537.85 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 81926.368 sq.mt
	b) Non FSI area (sq. m.): 4835.11 sq.mt
	c) Total BUA area (sq. m.): 86761.478
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 1,36,344.625
	Approved Non FSI area (sq. m.):
	Date of Approval: 27-04-2018
19.Total ground coverage (m2)	14315.44 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.97 %
21.Estimated cost of the project	982900000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	LIG-R (1 Wing) - Existing	G +7	23.97
2	LIG-R+SH (3 Wings) - Existing	G/SH +7	23.97
3	RO-HS (2 Wings) - Existing	G+1	7.40
4	LIG-R (4 Wings) -Proposed	S+7	23.83
5	EWS-1 (7 Wings) - Proposed	G+7	23.98
6	EWS -2 (7 Wings) - Proposed	G+7	23.98
7	RO-HS (2 Wings) - Proposed	G+1	7.40
8	Convenient Shopping (1 Wing)- Proposed	G	4.35

23.Number of tenants and shops	Residential Tenements- 1591 nos. Shops - 32 nos.
24.Number of expected residents / users	Residents - 7955 nos. Shop users- 96 nos.
25.Tenant density per hectare	116.69 nos.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 m wide road and 12 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	LIG-R (1 Wing) - G+7, LIG-R+SH (3 Wings) - G/SH +7 , RO-HS (2 Wings) - G+1
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**	Nagpur Improvement Trust (NIT)
	Fresh water (CMD):	718
	Recycled water - Flushing (CMD):	360
	Recycled water - Gardening (CMD):	36
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1114
	Fire fighting - Underground water tank(CMD):	600
	Fire fighting - Overhead water tank(CMD):	260
	Excess treated water	380
Wet season:	**Source of water**	Nagpur Improvement Trust (NIT)
	Fresh water (CMD):	718
	Recycled water - Flushing (CMD):	360
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1078
	Fire fighting - Underground water tank(CMD):	600
	Fire fighting - Overhead water tank(CMD):	260
	Excess treated water	416
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3m to 5m below ground
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	7 nos.
	Size of recharge pits :	3.5m x 1.8 m
	Budgetary allocation (Capital cost) :	35 Lakhs
	Budgetary allocation (O & M cost) :	3.5 Lakhs /year
	Details of UGT tanks if any :	Domestic tank total capacity - 359 kld Flushing tank total capacity -180 kld Fire water tank total capacity - 600 kld
35.Storm water drainage	**Natural water drainage pattern:**	Pipe storm water drain with collection chamber connected to existing Nallah
	Quantity of storm water:	60.57 m3/min
	Size of SWD:	300 / 450 / 600 /750 900 mm dia. Pipe
Sewage and Waste water	**Sewage generation in KLD:**	862 kld
	STP technology:	MBBR
	Capacity of STP (CMD):	2 STP of total capacity 900 kld (1 no. of STP of capacity 750 kld and 1 no. of STP of capacity 150 kld)
	Location & area of the STP:	Location of STP on Ground area – 960.75 sq.mt.
	Budgetary allocation (Capital cost):	210 Lakhs
	Budgetary allocation (O & M cost):	36 Lakhs / year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Waste will be generated during excavation and other construction activities
	Disposal of the construction waste debris:	Excavated materials shall be used for backfilling, leveling and remaining will be disposed by handed over to authorized contractor.
Waste generation in the operation Phase:	**Dry waste:**	1608 kg/day
	Wet waste:	2662 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	81 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry wastes will be handed over to authorized agency/recycler
	Wet waste:	Wet waste will be processed in the organic waste converter and manure generated shall be used for gardening purposes
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	Open Ground
	Area for the storage of waste & other material:	120 sq.mt
	Area for machinery:	30 sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50 Lakhs
	O & M cost:	13 Lakhs / year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	7239.59 sq.mt
	No of trees to be cut :	6 nos.
	Number of trees to be planted :	1135 nos.
	List of proposed native trees :	Shirish, Neem, Sita Ashok, Karanj, Nandruk, Kadamb, Apta, Bakul, Sitaphal, Mango, Parijatak and Kunti.
	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	Albizia lebbeck	Shirish	130	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	40	Large tree, good for roadside plantation
3	Saraca asoka	Sita Ashok	150	Shady tree with red-yellow flowers
4	Pongamia pinnata	Karanj	70	Shady tree
5	Ficus retusa	Nandruk	80	Medium sized evergreen tree, Shady tree.
6	Anthocephallus cadamba	Kadamb	80	Shady, large deciduous tree, fast-growing graceful tree, ball shaped flowers
7	Bauhinia racemosa	Apta	125	Small tree with small white flowers, Butterfly host plant
8	Mimusops elengi	Bakul	80	Shady tree, small white fragrant flowers
9	Annona squamosa	Sitaphal	60	Fruit bearing tree
10	Mangifera indica	Mango	50	Fruit bearing tree
11	Nyctanthes arbor-tristis	Parijatak	135	Small deciduous fast growing tree, beautiful flowers
12	Murraya paniculata	Kunti	135	Small tree, Fragrant white flowers, Butterfly host plant
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	300 KW
	DG set as Power back-up during construction phase	2 nos. of 125 KVA
	During Operation phase (Connected load):	4861.51 KW
	During Operation phase (Demand load):	3174.85 KW
	Transformer:	2 nos of 315 KVA, 2 nos of 200 KVA and 5 nos of 630 KVA
	DG set as Power back-up during operation phase:	3 nos of 160 KVA, 1 no of 125 KVA and 1 no of 100 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	HT line is passing from North side corner of plot and no construction will be proposed on the land affected by HT Line and its buffer zone.

48.Energy saving by non-conventional method:

By using 28 watt T5 Tube Light in place of 40 watt Tube Light.
By using VVVF drive for lifts.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	By using 28 watt T5 Tube Light in place of 40 watt Tube Light.	30
2	By using VVVF drive for lift	35

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:**	40 Lakhs
	O & M cost:	5 Lakhs / year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Site Safety	Barricading and dust suppression	4
2	Sanitary facility and waste water management	Water	7
3	Solid waste management	Solid waste	5

4	Occupation health and safety	Health checkup of workers, disinfection at site, first aid facility, personal protective equipment	6
5	Environmental Monitoring	Air, Noise, Water, Biological	8

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	1 STP of 750 kld and 1 STP of 400 kld	210	36
2	Rain Water Harvesting System	7 nos. of recharge pits	35	3.5
3	Solid Waste Management	OWC, Manpower and colored dustbins	50	13
4	Green Belt Development	Landscaping and tree plantation	25	5
5	Energy Saving Measures	T5 tube lights and VVVF drive	40	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:	Separate entry and exit points

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	16842.35 sq.mt. (Car -10892.50 sq.mt, Scooter-4712.65 sq.mt, Cycle -1237.20 sq.mt)
	Area per car:	26.37 sq.mt
	Area per car:	26.37 sq.mt
	Number of 2-Wheelers as approved by competent authority:	2112 nos.
	Number of 4-Wheelers as approved by competent authority:	384 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	12m, 9m , 6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a) -B2 Category
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	23-05-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Construction of EWS (PMAY) LIG and HIG (RH) Type Buildings at S.No. 116/1 to 5 at Mauza Waddhamna,Nagpur.by Nagpur Housing and Area Development Board (A MHADA Unit).

PP submitted their application for prior Environmental clearance for total plot area of 90879.891 Sq. Mtrs, FSI area of 81926.368 Sq. Mtrs, Non FSI area of 4835.11 Sq.m and total BUA of 86761.478 Sq. Mtrs. PP proposes to construct total 4 residential buildings with 1 Convenient Shopping (1 Wing).

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

DECISION OF SEAC

PP has requested to consider their case in next hearing as their consultant was absent.

SEAC decided to defer the proposal and would consider in next hearing.

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 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Environmental Clearance for Proposed Residential Development

Is a Violation Case: No

1.Name of Project	Parksyde Residences
2.Type of institution	Private
3.Name of Project Proponent	M/s Jaikumar Construction LLP
4.Name of Consultant	M/s. Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing Project.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, 1.we have received the environmental clearance vide Environment Clearance letter no SEAC-2212/CR234/TC-1. 2.We have received environment clearance from Nashik Municipal Corporation vide commencement certificate no LND/BP/C1/675/17083 dated 01/03/2018 for FSI 71,880.05 m2
8.Location of the project	S.NO. 256/2to6/6 +256/2to6/8 (P)+256/2 TO6/1+257/1A+257/1B+257/1C+257/1D+257/1J+257/2A/1(P) +257/2B (P)+257/1E+257/1e(P) +257/1H+257/1F/2(P) +257/1G(P)+P.NO. 1 TO 8 From S.no.256/7, Near Rasbihari School, Off Mumbai Agra Highway, Nashik,State - Maharashtra
9.Taluka	Nashik
10.Village	Nashik
Correspondence Name:	M/s Jaikumar Construction LLP,Near Rasbihari School, Off Mumbai Agra Highway, Nashik,State - Maharashtra
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Nashik
City:	Nashik
11.Area of the project	Nashik Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Commencement certificate by N.M.C. obtained
	IOD/IOA/Concession/Plan Approval Number: C-1/675/17083, Dated – 01-03-2018.
	Approved Built-up Area: 86016.75
13.Note on the initiated work (If applicable)	We have initiated the work on site as per the Environment Clearance and the sanctions received
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	73079.05
16.Deductions	12641.70
17.Net Plot area	60437.35
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 106285.93
	b) Non FSI area (sq. m.): 30,097.44
	c) Total BUA area (sq. m.): 98604.58
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 86016.75
	Approved Non FSI area (sq. m.): 37539.69
	Date of Approval: 01-03-2018
19.Total ground coverage (m2)	16131.30
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	27%
21.Estimated cost of the project	2987100000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	Stilt Parking + 13 Floors	39.45
2	B	Stilt Parking + 13 Floors	39.45
3	C	Stilt Parking + 13 Floors	39.45
4	D	Stilt Parking + 13 Floors	39.45
5	E	Stilt Parking + 13 Floors	39.45
6	F	Stilt Parking + 12 Floors	36.60
7	G	Stilt Parking + 12 Floors	36.60
8	H	Stilt Parking + 12 Floors	36.60
9	I	Stilt Parking + 15Floors	45.15
10	J	Stilt Parking + 15 Floors	45.15
11	K	Stilt Parking + 15 Floors	45.15
12	L	Stilt Parking + 15 Floors	45.15
13	N	Stilt Parking + 15 Floors	45.15
14	O	Stilt Parking + 15 Floors	45.15
15	P	Stilt Parking + 15 Floors	45.15
16	Q	Stilt Parking + 15 Floors	45.15
17	R	Stilt Parking + 15 Floors	45.15
18	S	Stilt Parking + 15 Floors	45.15
19	T	Stilt Parking + 12 Floors	36.60
20	U	Stilt Parking + 12 Floors	36.60
21	V	Stilt Parking + 12 Floors	36.60
22	M1	Stilt Parking + 15 Floors	45.15
23	M2	Stilt Parking + 15 Floors	45.15
24	M3	Stilt Parking + 15 Floors	45.15
25	M4	Stilt Parking + 15 Floors	45.15
26	M5	Stilt Parking + 15 Floors	45.15
27	Club House	Ground + 1 Floor	7.73
28	Maintenance Office	Ground Floors	3.60
29	M6	Stilt Parking + 15 Floors	45.15

23.Number of tenants and shops	Tenements:1496
24.Number of expected residents / users	Residential: 7480
25.Tenant density per hectare	220 Tenement per hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Maximum:45.15 m Minimum:3.60 m

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Site abutting on 30.0m wide. road on west & 24.0 m wide road on South side and width of the internal road is 12 m.
29.Existing structure (s) if any	Turning 9 m radius for easy access of fire tender movement from all around the building is 9 m.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Nashik Municipal Corporation
	Fresh water (CMD):	684
	Recycled water - Flushing (CMD):	337
	Recycled water - Gardening (CMD):	126
	Swimming pool make up (Cum):	17
	Total Water Requirement (CMD) :	1164
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	270
	Excess treated water	410

Wet season:	**Source of water**	Nashik Municipal Corporation
	Fresh water (CMD):	684
	Recycled water - Flushing (CMD):	337
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	17
	Total Water Requirement (CMD) :	1038
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	270
	Excess treated water	536
Details of Swimming pool (If any)	• • Dimension of Swimming Pool: Main Pool = 410.31 sq.mt x 1.20 m Baby Pool = 40.92 sq.mt x 0.60 m • Total water Requirement in KLD: 517 • Water requirement for makeup in KLD:17	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	0	684	684	0	68	68	0	616	616
Domestic	0	337	337	0	34	34	0	303	303
Gardening	0	126	126	0	126	126	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	23 Nos. of RWH pits with bore
	Size of recharge pits :	4.5 m x 4.5 m x 4.5m
	Budgetary allocation (Capital cost) :	Rs. 96 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 1.38 Lakhs/annum
	Details of UGT tanks if any :	Domestic UG tank Capacity:1100 m3 Flushing UG tank Capacity: 198m3 Fire UG tank Capacity: 200 m3
35.Storm water drainage	**Natural water drainage pattern:**	From North to south
	Quantity of storm water:	1099.57 m3
	Size of SWD:	900 mm dia having slope 1:300
Sewage and Waste water	**Sewage generation in KLD:**	918 m3/day
	STP technology:	SBR
	Capacity of STP (CMD):	1 STP of capacity 920 m3
	Location & area of the STP:	Behind R & S wing
	Budgetary allocation (Capital cost):	Rs. 119.05 Lakhs
	Budgetary allocation (O & M cost):	Rs. 44.35Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	15 Kg
	Disposal of the construction waste debris:	This material will be used for back filling and leveling of the plot and remaining will be disposed to authorized sites.
Waste generation in the operation Phase:	**Dry waste:**	1048 kg/day
	Wet waste:	1570 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	230 Kg/day
	Others if any:	Negligible

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorized recyclers
	Wet waste:	Will be treated in an Organic Waste Converter
	Hazardous waste:	Authorized hazardous waste management agencies
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure for landscaping
	Others if any:	E-waste:will be handled by authorized E-waste management agency.
Area requirement:	**Location(s):**	Behind R & S wing
	Area for the storage of waste & other material:	251 m2
	Area for machinery:	9 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 15 Lakhs
	O & M cost:	Rs. 4.8 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	NA	NA	NA	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	Diesel	2	3	1.75	90

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	11,708.62
	No of trees to be cut :	NA
	Number of trees to be planted :	755
	List of proposed native trees :	As mentioned in the list below
	Timeline for completion of plantation :	Till the completion of the project.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Peltoforum pterocarpum	Copper pod	51	Medium sized evergreen tree, fragrant yellow flowers.
2	Pongamia pinnata	Karanj	57	Shady tree.
3	Azadirachta indica	Neem	69	Large tree, good for roadside plantation
4	Ficus benjamina	Jambhul	23	It is a very popular house plant in temperate areas, due to its elegant growth and tolerance of poor growing conditions
5	Michelia champaca	Son chafa	65	Medium sized evergreen tree, Shady tree. fragment flower
6	Milingtonia hortensis	Buch	60	The tree is considered ornamental and the pleasant fragrance of the flowers renders it ideal as a garden tree.
7	Erythrina indica	Pangara	37	Medium sized deciduous tree. Bright scarlet flowers
8	Lagerstroemia flosregineae	Tamhan	39	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
9	Tabebuia argentia	Trumpet tree	57	The nectar of Tabebuia flowers is an important food source for several species of bees .
10	Tabebuia rosea	Trumpet tree	35	It is a popular ornamental tree in subtropical and tropical regions, grown for its spectacular flower display on leafless shoots at the end of the dry season.
11	Bauhinia blakeana	Kanchan	42	This is a very popular ornamental tree in subtropical and tropical climates, grown for its scented flowers
12	Spathodia	Pichkari	47	This tree is planted extensively as an ornamental tree and is much appreciated for its very showy reddish-orange or crimson
13	Anthocephallus cadamba	Kadam	155	Shady, large tree, ball shaped flowers
14	Terminalia katappa	Khota badam	86	Shady tree. Bird attracting fruit tree.
15	Plumeria alba	Pandhara chafa	99	Medium sized evergreen tree

16	Manikarazapota	Chiku	56	fruit tree
17	Trees to be retained	--	--	--
18	Ficusreligosa	Pimpal	2	Religious tree.
19	Mangiferaindica	mango	4	Large shady,fruit tree.
20	Tamarindusindica	Tamarind	2	Large shady,fruit tree
21	Acacia nilotica	Babhul	2	Thorny tree
22	Santalum album	Chandan	1	Auspicious tree
23	Total	--	11	--
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	Hamellia patens	@ 0.60m c/c	170
2	Canna dwarf	@0.45m c/c	320
3	Hibiscus yellow	@0.60mc/c	220
4	Muraya exotica	@0.75mc/c	225

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	200KVA
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	7370.00 kW
	During Operation phase (Demand load):	6150.00 kVA
	Transformer:	13 Nos. 630KVA
	DG set as Power back-up during operation phase:	2 D.G sets of total capacity 380 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

• 8W LED Fixtures proposed for parking areas & 15 W LED Fixtures in Common Lobby areas
• Automatic time based controls are proposed in Drive –ways of Parking to save power by switching ON & OFF the lights at appropriate time.
• Solar Heating is being proposed for Hot water used in Toilets & Kitchens.
• V3F drive motors should be used for lifts, which saves 30% energy consumption.
• We have proposed using SOLAR energy for Street Lighting and Parking Lighting. For Each Building having individual 7KW capacity of Solar energy is provided. For Lift & Common lighting load. We are installing 200 KW capacity system for other Common utilities. Like Street lighting, STP, Water pumping system etc.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving using 10W LED Lamps etc Inside the building for Common Areas : Ground Floor Parking Areas & Main Entrance Lobby.	6.59 %
2	Energy Saving using 10W LED Lamps Every Floor Common Passage lobby (Lift Lobbies) & & Staircase Landing	8.52 %
3	Energy Saving Due to uses of LED Lights in Internal Flats of the each building	60.88%
4	Area Lighting used of LED lights in Garden Areas : Pole Light / Tree up lighter, Step lights, UP & Down Lighter) Total Lights divided in Two parts ? 50% Lights will have Timers of 6.30 PM to 10.30 PM ? 50% Lights will have Timers of 6.30 PM to 6.30 AM	10.51%
5	Energy Efficient Motor & V3F Drive reduce the Starting Torque Passenger Lift of Indivisual Building	6.5%
6	Energy saved in compare with Water Gyser Against Solar Water Heater System	7.38%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	Not applicable	920
OWC	Not applicable	OWC 300

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.287 Lakhs
	O & M cost:	Rs.12.5 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Environmental monitoring	PM10, PM2.5, SO2, NOx, CO, Equivalent noise level, Analysis of water for physical, chemical, biological parameters.	2.1
2	Air Environment	Water For Dust Suppression Air & Noise monitoring	2.1
3	Water Environment	Tanker water for construction Water monitoring	16.8
4	Land Environment	Site Sanitation Gardening	41.86
5	Socio- Economic Environment	Disinfection- Pest Control First Aid Facilities Health Check Up Personal protective equipment	21.48
6	Energy Conservation	CFL lamps for labour hutments	0.07

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water, Sewage from STP, As per EP act, Manure	NA	13.74
2	Water	RWH	96	1.38
3	Water	STP	119.05	44.35
4	Energy	Solar Water Heating	287	12.5
5	Land Environment	Gardening	328.5	25
6	Solid waste	Solid waste management	15	4.8
7	Swimming Pool	Swimming Pool	100	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:	Traffic generated from this project will confluent on 30 m and 24 m wide road.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	3 nos. 5511.80 m2
	Total Parking area:	45195 m2
	Area per car:	12.5 m2
	Area per car:	12.5 m2
	Number of 2-Wheelers as approved by competent authority:	3007
	Number of 4-Wheelers as approved by competent authority:	1652
	Public Transport:	Nearest bus stop
	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	8a
	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 Environmental Clearance for ProposedResidential Development Parksyde Residences at 257/ 1A, 257 /1B, 257/1C, 257/ 1D,257/ 1J,257/ 2A/ 1(P), 257/ 2B(P), 256/2to6/6 +256/2to6/8(P)+256/2 TO 6/1+256/7 & P.NO. 1 TO 8 Near Rasbihari School, OffMumbai Agra Highway ,Nashik , by Mr Manoj Jaikumar Tibrewal.

PP submitted their application for expansion of Environmental clearance for total plot area of 73079.05 Sq. Mtrs, FSI area of 1,06,285.93 Sq. Mtrs, Non FSI area of 43,060.02 Sq.m and total BUA of 1,49,345.95 Sq. Mtrs. PP proposes to construct total 27 residential buildings with 1 Maintenance Office 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.

· The said project had first received EC letter from SEIAA, vide letter No. SEAC-2212/CR234/TC- dated 12.12.2014 on a plot area of 55,802.63 m^2 and FSI was restricted to 46004.41 m^2 as per building approval. Later the revised building plan was approved by NMC for an FSI area of 68507.14 m^2 for which EC was required.

· The PP again submitted the proposal to Nasik Municipal Corporation for EC for a FSI area of 86,016.75 m^2 as there was amalgamation of plot in the proposal and the said plot area was 73079.05 m^2 During appraisal NMC decided to restrict the EC letter dated 05-01-2018 to FSI 71,880.36 m^2 as they were in the opinion that this FSI was already being appraised by SEAC-III committee in the 10th SEAC Meeting and the same condition was also laid down in CC as well.

· PP received CC for a FSI area 71,880.05 m^2 dated March,2018 and the total construction area done on site is 96818.53m^2 till date.

· Now once again there is amendment in the proposal on the same plot area 73079.05 m^2 The current proposal has 27 buildings +Club House+ Maintenance Office out of 7 buildings are already constructed and received OC dated 18.10.2017 (for A to E buildings)and 05.06.2018 (for U&V buildings) as per previous EC.

· The total construction area now proposed is 1,49,345.95 m^2 (FSI : 1,06,285.93 m^2 + Non FSI : 43,060.02 m^2)

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) During the meeting PP stated that, the project was appraised by SEAC in its 10th held on 12th & 13th |August, 2014 for built up area of 1,07,055.28 Sq.m. Accordingly, SEIAA issued EC vide letter no. SEAC-2212/CR-234/TC-1 dated 12th December, 2014 with restricting Built up area of 75,827.12 Sq.m (FSI-46,004.41 Sq.m + Non FSI 29,822.71 Sq.m) as approved by planning authority.
2) Subsequently PP submitted the proposal to Nashik Municipal Corporation (NMC) for FSI area of 71,880.05 Sq.m and NMC has issued EC vide no. NMC/PHED/12A/2018 dated 5.01.2018. As per Para No. 7 of EC issued by NMC mentioned that PP permitted to construct FSI area up to 71,880.05 Sq.m. Further construction work above 71,880.05 Sq.m shall require separate EC. Meanwhile PP has obtained sanction of building permission and commencement certificate on 01.03.2018 wherein construction is permitted for FSI area 71,880.05 Sq.m.
3) Committee opinion that as per EIA Notification is summation of FSI and Non FSI area any expedience of construction beyond that EC permitted Built up area will have adverse impact on environment and ecology. Accordingly, SEAC considered the project and requested PP to submit clarification from NMC about the built up area which is mentioned in EC issued on 05.01.2018

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Environment Clearance for 'Bellrue' project proposed Residential cum Commercial development

Is a Violation Case: No

1.Name of Project	'Bellrue' project proposed Residential cum Commercial development at Yerwada, Pune, by Dr.Farrokh Wadia (Partner Sagitarius Ecospaces LLP)
2.Type of institution	Private
3.Name of Project Proponent	Dr.Farrokh Wadia (Partner Sagitarius Ecospaces LLP)
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Residential cum commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	On plot no. F.P.3, Nagar Road, Yeravada, Pune 411006
9.Taluka	Haveli
10.Village	Yerwada
Correspondence Name:	Dr. Farrokh Wadia
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	8,Nagar Road
Locality:	Yeravada
City:	Pune 411 006.
11.Area of the project	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	Zoning layout subdivision approved dated 16/08/2017
	IOD/IOA/Concession/Plan Approval Number: Zoning layout subdivision approved dated 16/08/2017
	Approved Built-up Area: 301138.62
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.)	2,38,932.48 sq m
16.Deductions	42,569.88 sq.m
17.Net Plot area	1,96,362.60 sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 3,62,572.00 sq m.
	b) Non FSI area (sq. m.): 1,35,174.18 sq m.
	c) Total BUA area (sq. m.): 596571.63
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 3,62,572.00 sq m.
	Approved Non FSI area (sq. m.): 1,35,174.18 sq m.
	Date of Approval: 16-08-2017
19.Total ground coverage (m2)	53,993sq m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	22.5 %
21.Estimated cost of the project	28000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Type A (3 bldgs)	1 Basement + Stilt + 2 Parking + 25 floors	92 m.
2	Type B (2 bldgs)	1 Basement + Stilt + 2 Parking + 25 floors	92 m.
3	Type B1 (3 bldgs)	Stilt + 2 Parking + 14 floors	92 m.
4	Type E1 (1 bldg)	3 Basement + stilt + 18 floors	79.45m.
5	Type E2 (1 bldg)	3 Basement + stilt + 18 floors	79.45m.
6	Type E3 (1 bldg)	3 Basement + stilt + 18 floors	79.45m.

23.Number of tenants and shops	1284
24.Number of expected residents / users	Residents : 7832; Commercial: 23176 ; Total: 31008
25.Tenant density per hectare	520
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	60 mts.wide existing DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6.0 mtr Drive way with turning radius of 7.5 mtrs
29.Existing structure (s) if any	Residence of the owner which will be retained.
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**	Municipal water
	Fresh water (CMD):	1066 KLD
	Recycled water - Flushing (CMD):	1704 KLD
	Recycled water - Gardening (CMD):	640 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2770 KLD
	Fire fighting - Underground water tank(CMD):	2200 KL
	Fire fighting - Overhead water tank(CMD):	180 KL
	Excess treated water	86
Wet season:	**Source of water**	Municipal water
	Fresh water (CMD):	1066 KLD
	Recycled water - Flushing (CMD):	1064 KLD
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2130 KLD
	Fire fighting - Underground water tank(CMD):	2200 KL
	Fire fighting - Overhead water tank(CMD):	180 KL
	Excess treated water	726
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	0.90m. to 3.75..m
	Size and no of RWH tank(s) and Quantity:	5 no. tank with total capacity of 341 cmd
	Location of the RWH tank(s):	At Basement (As per the drawings and various plans)
	Quantity of recharge pits:	80 nos.
	Size of recharge pits :	2 m dia & 3 m deep
	Budgetary allocation (Capital cost) :	93.5
	Budgetary allocation (O & M cost) :	208
	Details of UGT tanks if any :	In Basement-8 for residential part In Basement-2 for commercial part
35.Storm water drainage	**Natural water drainage pattern:**	drain channel with grating on top
	Quantity of storm water:	20839 KL/hr
	Size of SWD:	1.00 m. depth x 1.2 m. wide
Sewage and Waste water	**Sewage generation in KLD:**	2300
	STP technology:	MBBR
	Capacity of STP (CMD):	5 Nos with capacity of 2300 KLD
	Location & area of the STP:	Basement (collection tank UG and equipment above ground)
	Budgetary allocation (Capital cost):	80.51
	Budgetary allocation (O & M cost):	11.5
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris – 1-3 MT/day; Top soil to be preserved : 3,27,485 cum
	Disposal of the construction waste debris:	used for filling the plot and maintaining natural slopes.
Waste generation in the operation Phase:	**Dry waste:**	17,940
	Wet waste:	26,910
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	1.8
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	Segregation and sale of recyclables,
	Wet waste:	Biodegradable waste to compost.(OWC)
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	mix with wet waste and convert that into compost
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Basement
	Area for the storage of waste & other material:	60 sq.mt in 5 locations
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	11.2
	O & M cost:	1.6

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 :**	19636.6 sq.m
	No of trees to be cut :	1209
	Number of trees to be planted :	3650
	List of proposed native trees :	As 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	Aegle marmelos	Beal Tree	--	Native, Medicinal plant, fruits use to make marmalade/jam etc.
2	Anona squamosa	Custard apple, Sitafal	--	Native, Medicinal plant, fruits use to make marmalade/jam etc.
3	Azadirachta indica	Neem Tree	--	Native, Medicinal plant
4	Cordia dichotoma	Bhokar	--	Native, raw fruits use to make pickle
5	Lagerstroemia speciosa	Queen Crape Myrtle	--	Native, aesthetic value, shade
6	Millingtonia hortensis	Indian Cork	--	Native, aesthetic value, sweet scented flowers
7	Mimusops elengi	Bakuli	--	Native, Medicinal plant, fruits consumed at many places
8	Syzygium cumini	Jambhul	--	Native, Medicinal plant, fruits use to make fresh juice, syrup, jelly etc.
9	Bauhinia purpurea	Butterfly Tree	--	Native, aesthetic value
10	Bauhinia racemosa	Astha	--	Native, aesthetic value
11	Bougainvillea spectabilis	Bougainvillea	--	Aesthetic value
12	Citrus limon	Lemon, Limbu	--	Native, Medicinal plant, fruits use to make fresh juice, pickle etc.
13	Emblica officinalis	Awala	--	Native, Medicinal plant, fruits use to make fresh juice, syrup, pickle etc.
14	Gardenia jasminoides	Anant	--	Native, aesthetic value, sweet scented flowers
15	Murraya paniculata	Kunti	--	Native, aesthetic value
16	Nerium indicum	Pink Oleander	--	Native, aesthetic value
17	Nyctanthus arbor-tristis	Parijatak	--	Native, Medicinal plant, aesthetic value, sweet scented flowers
18	Psidium guajava	Peru	--	Native, fruits use to make fresh juice, syrup, etc.
19	Saraca asoka	True Ashok	--	Native, Medicinal plant, aesthetic value
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	250
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	48486 KW
	During Operation phase (Demand load):	28518.99 KW
	Transformer:	16 x 630 kva (for Residential) & 8 x 3000 kva (for Commercial)
	DG set as Power back-up during operation phase:	4 Nos. (630 KVA, 500 KVA, 400 KVA, 630 KVA) & 8 x 3000 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 Measure :
? Use of lamps
? Electronic ballast
? Pumping system with VFD
? Capacitors for common area load
? Solar lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving Measure	14%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	35
	O & M cost:	3.5

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Debris/Top soil Management	Not applicable	10.00
2	Toilets for labour + drinking water + first aid arrangement	Not applicable	12.00
3	Safety measures	Not applicable	0.35
4	Monitoring of Environmental Parameters	Not applicable	--
5	Total	Not applicable	22.35

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	Not applicable	80.5	11.5
2	Solid Waste Management	Not applicable	11.2	1.6
3	Rain Water Harvesting	Not applicable	93.5	2.8
4	Green Belt	Not applicable	20	5
5	Energy saving features	Not applicable	35	3.5
6	Environmental monitoring	Not applicable	--	8
7	TOTAL	Not applicable	240	32

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:	4

Parking details:	**Number and area of basement:**	Commercial : 3 basement + Pit parking – 76,906sqmt., Stilt – 17,105 sqmt ; Residential : Phase 1 – 1 basement – 12,048sqmt, stilt /parking –Stilt+ 2 parking -86778 sqmt
	Number and area of podia:	Not applicable
	Total Parking area:	1,75,826 Sq.m.
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	1496
	Number of 4-Wheelers as approved by competent authority:	5422
	Public Transport:	Not applicable
	Width of all Internal roads (m):	7.50m. to 12 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 (b)
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	12-07-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Environment Clearance for „Bellrue? project proposed Residential cum Commercial development On plot no. F.P.3, Nagar Road, Yeravada, Pune by Dr.Farrokh Wadia (Partner Sagitarius Ecospace LLP).

PP submitted their application for prior Environmental clearance for total plot area of 2,38,932.48 Sq. Mtrs, FSI area of 3,62,572.00 Sq. Mtrs, Non FSI area of 1,35,174.18 Sq.m and total BUA of 5,96,571.63 Sq. Mtrs. PP proposes to construct total 11 residential and commercial buildings.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit Socio -economic infrastructure within vicinity land specially existing primary school, market hospital etc.
2) PP to submit DMP with lightning arrestor and its costing.
3) PP to submit debris management plan with details.
4) PP to submit hydrogeological report with details of RWH pits and its drawings.
5) PP to submit phase wise programme considering wind direction on site.
6) PP to submit revised solid waste management plan considering its E-waste generation and disposal.
7) PP to submit revised EMP with cost considering ENV Parameters.
8) PP to submit STP drawings, its cross section on design basis and calculations.
9) PP to submit specific NOC from respective authority to drain nalla crossing through land and also submit revised RG drive.
10) PP to submit detail drawing of internal storm water drain showing details and size of drain etc.
11) PP to submit Indemnity Bond for project land.
12) PP to submit CFO NOC, High rise NOC, Water NOC, Tree Authority NOC.
13) PP to submit revise RG plan for nalla and details of existing trees.
14) PP to submit sewer plan.
15) PP to submit PP to submit undertaking for implementation of CER.
16) PP to submit socioeconomic report.

FINAL RECOMMENDATION

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

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Proposed IT Building

Is a Violation Case: No

1.Name of Project	Prestige Alphatech
2.Type of institution	Private
3.Name of Project Proponent	M/s. Prestige Exora Business Parks Limited
4.Name of Consultant	M/s. A & N Technologies
5.Type of project	Other - IT Building
6.New project/expansion in existing project/modernization/diversification in existing project	Modernization
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. There is an EC for the said project site in the name of M/s. Zenith Ventures vide No. 21-1217/2007-IA.III dated 29th April 2010, for the built up area of 35,185 Sqmt for the construction of Shopping Mall & Multiplex on a plot area of 37,160 Sqmt. The construction work was started with respect to previous Environmental Clearance & excavation was done for some portion & the project was stalled due to some internal reasons. Now the land owner made a Joint Development with M/s. Prestige Exora B
8.Location of the project	S. No. 39/2 & 39/2B, P. No. A1+A2+C2-6, Kharadi, Pune.
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	M/s. Prestige Exora Business Parks Limited
Room Number:	NA
Floor:	NA
Building Name:	The Falcon House, No.1
Road/Street Name:	Main Guard Cross Road
Locality:	Bengaluru
City:	Bengaluru
11.Area of the project	Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: Under Process
	Approved Built-up Area: 110718
13.Note on the initiated work (If applicable)	Part excavation for basement is done as per earlier sanctioned plans, by earlier owner.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Water NOC, Provisional Fire NOC and Drainage NOC obtained
15.Total Plot Area (sq. m.)	22,637.95
16.Deductions	7,966.26
17.Net Plot area	14,671.69
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 49,709.01
	b) Non FSI area (sq. m.): 61,009.05
	c) Total BUA area (sq. m.): 110718
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)	5,072.62
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	34.57
21.Estimated cost of the project	2800000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1	3B+GR+16UF	69.90

23.Number of tenants and shops	NA
24.Number of expected residents / users	5,502 Nos.
25.Tenant density per hectare	2,435 Nos.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	45 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	The dedicated driveway around the building is indicated as 6.0 m in the drawings and the turning radius is 5 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**	Pune Municipal Corporation
	Fresh water (CMD):	291
	Recycled water - Flushing (CMD):	91
	Recycled water - Gardening (CMD):	68
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	382
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	168

Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	139
	Recycled water - Flushing (CMD):	91
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	230
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	236
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	382	382	Not applicable	38	38	Not applicable	344	344

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Not Encountered upto 10m
	Size and no of RWH tank(s) and Quantity:	152 Cum of 1 No.
	Location of the RWH tank(s):	East of South East of the project site
	Quantity of recharge pits:	19 Nos.
	Size of recharge pits :	1.2 m dia, 25m depth
	Budgetary allocation (Capital cost) :	Rs. 5.0 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 2.0 Lakhs/Annum
	Details of UGT tanks if any :	Raw Water Sump 135 Cum X 2 Nos. Fire Water Sump 250 Cum X 2 Nos.

35.Storm water drainage	**Natural water drainage pattern:**	South to North direction
	Quantity of storm water:	94 Cum
	Size of SWD:	600mm

Sewage and Waste water	**Sewage generation in KLD:**	344
	STP technology:	Moving Bed Bio-Reactor Technology
	Capacity of STP (CMD):	1 No. of 350 KLD
	Location & area of the STP:	South East corner of the project site. Area 214 Sqmt
	Budgetary allocation (Capital cost):	Rs. 80 Lakhs
	Budgetary allocation (O & M cost):	Rs. 7.5 Lakhs/Annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	150 kg/day of solid waste
	Disposal of the construction waste debris:	The construction debris will be reused within the site
Waste generation in the operation Phase:	**Dry waste:**	0.55 MT/day
	Wet waste:	1.10 MT/day
	Hazardous waste:	Waste Oil - 2.9 l/hr
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	17.5 kg/day
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handed over to authorised vendors
	Wet waste:	Wet will be treated organic waste converter
	Hazardous waste:	Hazardous waste will be handed over to MPCB authorised waste oil recyclers
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	STP sludge will be used as manure for gardening
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	East of South East of the project site
	Area for the storage of waste & other material:	100 Sqmt
	Area for machinery:	100 Sqmt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 3.0 Lakh
	O & M cost:	Rs. 2.5 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	Spent Oil	5.1	liter/hr	Not applicable	2.9	2.9	Hazardous waste will be handed over to MPCB authorised waste oil recyclers

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 (1500 kVA)	1257 l/hr	4	81.9	0.3	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Heigh Speed Diesel	Not applicable	1257 l/hr	1257 l/hr
41.Source of Fuel		From authorised vendors		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	1697.89 Sqmt
	No of trees to be cut :	There are no tree in the project site
	Number of trees to be planted :	183 Nos.
	List of proposed native trees :	Blackboard Tree, Golden Shower Tree, Orange Geiger Tree, Blue Gulmohar, Champaka Tree, Copperpod Tree
	Timeline for completion of plantation :	3 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Alstonia scholaris	Blackboard Tree	26	--
2	Cassia fistula	Golden Shower Tree	30	--
3	Cordia sebestena	Orange Geiger Tree	33	--
4	Jacaranda mimosifolia	Blue Gulmohar	38	--
5	Michelia champaca	Champaka Tree	28	--
6	Peltophorum ferrugineum	Copperpod Tree	28	--
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd.
	During Construction Phase: (Demand Load)	200 kVA
	DG set as Power back-up during construction phase	250 kVA 1 No.
	During Operation phase (Connected load):	4021 kVA
	During Operation phase (Demand load):	4021 kVA
	Transformer:	2,500 kVA X 2 Nos.
	DG set as Power back-up during operation phase:	1,500 kVA X 4 Nos.
	Fuel used:	HSD 1257 l/hr
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

1.Power savings due to solar PV panels = 0.25%
2.Power savings through HF Ballast = 0.74%
3.Power savings on Cu. Wound transformer = 0.33%
4.Power savings through LED = 0.61%
5.Energy Savings due to Lower LPD (Lighting Load) = 3.99%
6.Time switch control for parking lighting = 0.06%
7.Energy saving due to VFD drives = 1.46%
8.Power factor maintenance = 5.00%
Total Energy Saved with above measures = 12.44%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Power savings due to solar PV panels	0.25%
2	Power savings through HF Ballast	0.74%
3	Power savings on Cu. Wound transformer	0.33%
4	Power savings through LED	0.61%
5	Energy Savings due to Lower LPD (Lighting Load)	3.99%
6	Time switch control for parking lighting	0.06%
7	Energy saving due to VFD drives	1.46%
8	Power factor maintenance	5.00%
9	Total Energy Saved with above measures	12.44%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	Not applicable	350 KLD
OWC	Not applicable	1100 kg
DG Sets	Not applicable	1500 kVA 4 Nos.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 5 Lakh
	O & M cost:	Rs. 1 Lakh/Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water	Purchase of water from external authorized suppliers	10.5
2	Solid waste	Disposal of Solid Waste from project site	1.5
3	Landscape	Plantations of saplings around the periphery and maintenance	2.0
4	Monitoring	Environmental Monitoring –Air, water, Noise	1.0
5	EMP	EMP cell	4.0
6	Total	--	19.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	--	80.0	7.5
2	Rain Water Harvesting facilities	--	5.0	2.0
3	Landscape Development	--	5.0	5.0
4	Air Pollution Control	--	5.0	1.0
5	OWC	--	3.0	2.5
6	Environmental Monitoring	--	--	1.0
7	EMP Cell	--	--	4.0
8	Total	--	98.0	23.0

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 No.
Parking details:	**Number and area of basement:**	3 Basements with 29,644.29 Sqmt area
	Number and area of podia:	NA
	Total Parking area:	34,977.21 Sqmt
	Area per car:	12.50 Sqmt
	Area per car:	12.50 Sqmt
	Number of 2-Wheelers as approved by competent authority:	2834 Nos.
	Number of 4-Wheelers as approved by competent authority:	1182 Nos.
	Public Transport:	No
	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	Vetal Tekdi Reserved Forest = 12.40 km
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	Not Any
	Other Relevant Informations	--

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	25-01-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed IT Building, Prestige Alphatech at S. No. 39/2 & 39/2B, P. No. A1+A2+C2-6, Kharadi, Pune.by M/s. Prestige Exora Business Parks Limited.

PP submitted their application for prior Environmental clearance for total plot area of 22637.95 Sq. Mtrs, BUA of 110718 Sq. Mtrs and FSI area of 49709.01 Sq. Mtrs. PP proposes to construct 1 no. residential building.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit disaster management plan with emergency services, committee, lightning arrester plan and costing.
2) PP to submit debris management plan considering volume of of top soil,excess earth and specific NOC for dump.
3) PP to submit solid waste management plan.
4) PP to submit undertaking for sustainable water supply.
5) PP to submit energy saving calculation along with terrace area calculations.
6) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF& CC circular dated 1/05/2018.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Re-Validation and Amendment of Existing EC for Proposed Part Residential Project

Is a Violation Case: No

1.Name of Project	Nandan Prospera, Nandan Prospera Gold, Nandan Accura by M/s. Nandan Associates
2.Type of institution	Private
3.Name of Project Proponent	M/s. Nandan Associates
4.Name of Consultant	Building Environment (India) Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Re-Validation and Amendment of Existing EC for Proposed Part Residential Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	PP has obtained EC letter dated 23.11.2010 vide letter Number SEAC.2010/CR.423/TC.2
8.Location of the project	S. No. 22/1 + 2 + 3(P) + 5 (P) + 6(P), Balewadi, Taluka-Haveli Dist-Pune
9.Taluka	Haveli
10.Village	Balewadi
Correspondence Name:	Mr. Makarand Shingawade
Room Number:	Not Applicable
Floor:	Not Applicable
Building Name:	Nandan House, Plot No. 52
Road/Street Name:	Shivaji Housing Society, behind ICC
Locality:	Senapati Bapat Road
City:	Pune - 411016
11.Area of the project	Pune Municipal Corporation [PMC]
12.IOD/IOA/Concession/Plan Approval Number	PP has sanctioned plan dated 31.03.2017 from Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: 88/3860/16 dated 31.03.2017
	Approved Built-up Area: 77883.53
13.Note on the initiated work (If applicable)	Till date PP has completed construction of 6 residential buildings namely A1, A2, A3,A4 ,B1 and B2 on site with total BUA of 50626.70m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	33771.00 m2
16.Deductions	11840.85 m2
17.Net Plot area	21930.15 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 43733.07
	b) Non FSI area (sq. m.): 34150.46
	c) Total BUA area (sq. m.): 77883.53
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 43860.30
	Approved Non FSI area (sq. m.): 34150.46
	Date of Approval: 31-03-2017
19.Total ground coverage (m2)	10188.40
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29
21.Estimated cost of the project	873090000

22.Number of buildings & its configuration

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

1	Building A1	P+16	49.95
2	Building A2	P+16	49.95
3	Building A3	P+16	49.95
4	Building A4	P+16	49.95
5	Building B1	P+7+1(proposed)	25.80
6	Building B2	P+7	22.95
7	Building B3	P+UP+16	55.98
8	Building B4	P+UP+16	55.98
9	Building B5	P+2	10

23.Number of tenants and shops	Total 555 tenants
24.Number of expected residents / users	2775
25.Tenant density per hectare	250
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	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	6 Residential Building are already constructed on site namely A1,A2,A3,A4,B1 and B2 with Total BUA of 50626.70 Sq. m.
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 as it is a Residential Building	Not applicable as it is a Residential Building	Not applicable as it is a Residential Building	Not applicable as it is a Residential Building

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	258.66
	Recycled water - Flushing (CMD):	166.43
	Recycled water - Gardening (CMD):	41.55
	Swimming pool make up (Cum):	8.91
	Total Water Requirement (CMD) :	425.09
	Fire fighting - Underground water tank(CMD):	136.50
	Fire fighting - Overhead water tank(CMD):	567.250
	Excess treated water	127.28
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	258.66
	Recycled water - Flushing (CMD):	124.88
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	8.91
	Total Water Requirement (CMD) :	383.54
	Fire fighting - Underground water tank(CMD):	136.50
	Fire fighting - Overhead water tank(CMD):	567.250
	Excess treated water	168.83
Details of Swimming pool (If any)	PP has proposed a 2 swimming pool of 198 capacity each	

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	192.11	62.1	258.71	39.32	12.42	51.73	225.18	74.52	299.70
Gardening	25.00	16.55	41.55	0	0	0	0	0	0
Domestic	281.48	93.15	374.63	56.30	18.63	74.93	225.18	74.52	299.70

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10
	Size and no of RWH tank(s) and Quantity:	No RHW Tank is proposed for storage of Rain Water Harvesting, Harvested water shall be used for ground water recharge
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	30
	Size of recharge pits :	1.5*1.5*5
	Budgetary allocation (Capital cost) :	300000
	Budgetary allocation (O & M cost) :	30000
	Details of UGT tanks if any :	PP has provided separate UGT of 1365000 Litres
35.Storm water drainage	**Natural water drainage pattern:**	Yes
	Quantity of storm water:	8057.13
	Size of SWD:	450-500 mm
Sewage and Waste water	**Sewage generation in KLD:**	299.70
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	Total 3 STP- 140 m3/day, 120 m3/day, 80 m3/day
	Location & area of the STP:	Besides building B1
	Budgetary allocation (Capital cost):	5600000
	Budgetary allocation (O & M cost):	550000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	56
	Disposal of the construction waste debris:	The domestic solid waste will be collected, segregated and handed over to authorized vendors. The entire construction waste will be used within site for levelling purpose
Waste generation in the operation Phase:	**Dry waste:**	550
	Wet waste:	832.5
	Hazardous waste:	100 lit/A
	Biomedical waste (If applicable):	0
	STP Sludge (Dry sludge):	50
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling & disposal purpose
	Wet waste:	Treated in Organic Waste Convertor
	Hazardous waste:	Authorized re-processor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used for manure within gardening purpose or will be disposed off as per CPEEHO manual on Sewerage & Sewage Treatment System, 2013
	Others if any:	NA
Area requirement:	**Location(s):**	Near A Building
	Area for the storage of waste & other material:	Apprx. 65m2
	Area for machinery:	Apprx. 65m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2000000
	O & M cost:	80000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	7.0-8.0	7.5	7.0-8.0
2	Suspended Solids	mg/l	400	<10	100
3	Chemical Oxygen Demand	mg/l	350-400	20-30	250
4	Biochemical Oxygen Demand	mg/l	300	10	100
5	Oil and Grease	mg/l	25-30	10	<10
6	Total Dissolved Solid	mg/j	1000-1100	<1100	2100

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/Waste Oil	5.1	Lt/A	60	40	100	Authorized re-processor

39.Stacks emission Details

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

1	1	21	DG Set of 62.5 KVA	2.0	0.11	115
2	2	46.31	DG Set of 250 KVa	3.1	0.15	72
3	3	46.31	DG Set of 250 KVA	3.1	0.15	72
4	4	33.76	DG Set of 180 KVA	3.0	0.11	105

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	101.07	46.31	147.38
41.Source of Fuel		Market		
42.Mode of Transportation of fuel to site		By Tanker		

43.Green Belt Development	**Total RG area :**	8310.00
	No of trees to be cut :	0
	Number of trees to be planted :	318
	List of proposed native trees :	Attached as Annexure
	Timeline for completion of plantation :	PP shall complete plantation of trees along with completion of trees

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	Azardicta Indica	Neem	37	Large size handy tree drought conditions. Medicincal Value
2	Sarca Indica	Sita Ashoka	20	Small tree with dense follage provides shades and attract variety of birds dur to red flower
3	Millingtonia Hortensis	Indian Cork Tree	16	A columnar ever green tree, grow well in both dry and moist conditions
4	Khaya Senghals	Khaya	10	Medicinal Value/ Value for timber
5	Jacaranda Mimoslfolla	Jacaranda	6	Mdeium size gracious flowering tree which prefers moderate climate. Medicinal and ornamental value
6	Ailanthus Excelsa	Maharukh	10	Large tree, good or road side plantation, common in most hotter part
7	Spathodia Campanulta	Pichkarl	5	Ornamental and Medicinal Value
8	Lagerstromia Flos - regineae	Tamhan	10	State flower of Maharashtra, medium sized tree, grows well in both wet and dry season
9	Butea Monosperma	Palas	7	Small deciduous, good for road side plantation , ornamental value

10	Mimusops Elengi	Bakul	6	Medium size evergreen tree with strong fragnace flower
11	Terminialia Catappa	Badam	3	Tall decidious , fruit bearing tree
12	Casia Fistula	Bahava	22	Ornamental - flowering plant
13	Plumeria Alba	Champs	25	Ornamental Flower bearing tree
14	Michella Champaca	Sonchapa	32	Ornamental and Medicinal Value
15	Khaya grandis	Mohogani	24	Fruit bearing with medicinal value
16	Pterospermun acerifolium	-	7	Ornamental and Medicinal Value
17	Anthocephalms cadamba	Kadamb	7	Ornamental and Medicinal Value
18	Ficus hispida	kala umbar	4	Fruit bearing with medicinal value
19	Drypetes roxburghii	Putranjiva	6	Large tree with Medicinal Value
20	Schleichera oleosa	Kusumb	9	Large tree with Medicinal Value
21	Ficus religiosa	Peepal	6	Large tree with Medicinal Value
22	Nyctanthes arbor tristis	Prajakta	10	Small ornamental tree
23	Bauhinia racemosa	Apta	16	Small tree with Medicinal Value
24	Mimusops elengi	Maulsari	20	Large tree with Medicinal Value
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Attached as Annexure	Attached as Annexure	Attached as Annexure

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	49 KW
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	3527 KVA
	During Operation phase (Demand load):	2615KVA
	Transformer:	630 KVA – 4 Nos. ,315 KVA – 1 No.
	DG set as Power back-up during operation phase:	2 Nos. 250KVA & 1No. x 180 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

PP has installed solar water heating system for all Residential Building
Energy Efficient pump
Common Areas are lightened with LED bulbs
PP has provided timer for Staircase Lighting, Lift Lobby, Parking Area and Street Lights

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	PP has installed Solar panels for Residential Building & Energy saving through advance T5/LED lighting scheme & Energy saving through solar water heating system - 1548.45 kWH	35.22

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG Set	Use of Low sulphur fuel, adequate stack height	Use of Low sulphur fuel, adequate stack height

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	12700000
	O & M cost:	25000

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 Environment	Water for Dust Suppression	1.2
2	Safety	Site Sanitation & Safety	0.5
3	Environmental Monitoring	Environmental monitoring for water, air, soil & noise	1.5
4	Water Environment	Disinfection	0.2
5	Health & Labour Welfare	Health Check up of employees	0.3

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	Rain Water Harvesting	3.0	0.3
2	Sewage Treatment Plant	Treatment of Waste water	56	5.5
3	Solid waste environment	Treatment of Waste generated	20.0	0.8
4	Landscape & green belt developement	Cost for Tree Plantation	5.0	0.60
5	Energy Conservation	Energy Saving measures	127	0.25
6	Environment Monitoring	Environmental monitoring for water, air, soil & noise	0.0	3.0
7	Water Environment	Laying of Storm & Sewer Line	2.0	0.30

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2 (Entry and Exit)
Parking details:	**Number and area of basement:**	Parking Layout Attached as Annexure
	Number and area of podia:	Parking Layout Attached as Annexure
	Total Parking area:	10064.75 m2
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	976
	Number of 4-Wheelers as approved by competent authority:	588
	Public Transport:	Available outside Project Premises
	Width of all Internal roads (m):	Average 6
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	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 Re-Validation and Amendment of Existing ECfor Proposed Part Residential Project at S. No. 22/1 + 2 + 3(P) + 5 (P) +6(P), Balewadi, Taluka-Haveli Dist-Pune by M/s. Nandan Associates.

PP submitted their application for prior Environmental clearance for total plot area of 33771.00 Sq. Mtrs, FSI area of 43733.07 Sq. Mtrs, Non FSI area of 34150.46 Sq.m and total BUA of 77883.53 Sq. Mtrs. PP proposes to construct total 09 residential building.

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 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Application for expansion in Environment Clearance for Residential & Commercial project

Is a Violation Case: No

1.Name of Project	Kumar Primavera
2.Type of institution	Private
3.Name of Project Proponent	Mr. Hitesh Jain
4.Name of Consultant	VK:e Environmental LLP
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in Existing Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes . Environment Clearance obtained dated June 12 , 2007.
8.Location of the project	Plot No 69 in S. No. 55(P), at Wadgaonsheri, Tal- Haveli, Dist- Pune
9.Taluka	Haveli
10.Village	Wadgaonsheri
Correspondence Name:	Samir Patil
Room Number:	-
Floor:	1st floor
Building Name:	Kumar Capital
Road/Street Name:	2413, East Street
Locality:	Camp
City:	Pune
11.Area of the project	PMC
12.IOD/IOA/Concession/Plan Approval Number	Yes
	IOD/IOA/Concession/Plan Approval Number: Plan Approval Number: CC/2342/17 dated 14 Dec 2017.
	Approved Built-up Area: 71584.71
13.Note on the initiated work (If applicable)	Existing: Residential Building (A1,A2,A3,A4,A5,A6,A7,A8 , B1,B2,B3,B4,B5 and Club House-Completed). Total Built up area constructed - 60441.87 sqm (FSI-34601.47 sqm & Non-FSI-25840.40)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Water NOC-Received, Drainage NOC-Received, Fire NOC-Received ,SWACH NOC-Received ,Garden NOC-Received
15.Total Plot Area (sq. m.)	29507.53 sqm.
16.Deductions	3935.38 sqm
17.Net Plot area	25572.15 sqm.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 41410.56 sqm.
	b) Non FSI area (sq. m.): 30174.15 sqm.
	c) Total BUA area (sq. m.): 71584.71
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 41410.56 sqm.
	Approved Non FSI area (sq. m.): 30174.15 sqm.
	Date of Approval: 14-12-2017
19.Total ground coverage (m2)	11420.73 sqm.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	39%
21.Estimated cost of the project	957200000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A1 to A9, 9 no. of buildings	P+9	29.9
2	Building B1 to B6, 6 no. of buildings	P+11	35.9
3	Club House	G+1	7.9
4	S1-Commercial	G	4.8

23.Number of tenants and shops	Existing -545 Proposed-100 S1 -11 shops
24.Number of expected residents / users	Existing- 2725 nos., Proposed- 600 (residential + Commercial), Total - 3325 nos.
25.Tenant density per hectare	219 /Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m wide
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC/Recycled water from STP
	Fresh water (CMD):	292
	Recycled water - Flushing (CMD):	148
	Recycled water - Gardening (CMD):	20
	Swimming pool make up (Cum):	11
	Total Water Requirement (CMD) :	460
	Fire fighting - Underground water tank(CMD):	650
	Fire fighting - Overhead water tank(CMD):	300
	Excess treated water	194
Wet season:	**Source of water**	PMC/Recycled water from STP
	Fresh water (CMD):	292
	Recycled water - Flushing (CMD):	148
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	440
	Fire fighting - Underground water tank(CMD):	650
	Fire fighting - Overhead water tank(CMD):	300
	Excess treated water	214
Details of Swimming pool (If any)	Existing 1 swimming Pool -128.34 sqm	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	8-12 mtr below ground level
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	8 RWH pits. 6- pits already exits on site & 2 pits are proposed.
	Size of recharge pits :	1.5 mtr X1.5 mtrX1.5 mtr
	Budgetary allocation (Capital cost) :	9.02 Lakh
	Budgetary allocation (O & M cost) :	0.80 Lakh/year
	Details of UGT tanks if any :	UGWT - 1 Domestic : 203 CuM Drinking : 78 CuM Fire : 450 CuM UGWT - 2 Domestic : 121 CuM Drinking : 43 CuM Fire : 200 CuM Total - Flushing : 148 CuM
35.Storm water drainage	**Natural water drainage pattern:**	Through Gravity, Direction of Flow - N to S
	Quantity of storm water:	0.4908 m3/sec
	Size of SWD:	450 x 300 mm wide trench
Sewage and Waste water	**Sewage generation in KLD:**	374 m3/day
	STP technology:	SMBR
	Capacity of STP (CMD):	400 m3/day
	Location & area of the STP:	Locations are as per master layout ; 178.87 sqm
	Budgetary allocation (Capital cost):	Rs. 94.82 Lakh
	Budgetary allocation (O & M cost):	Rs. 10.6 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	10.00 kg/day
	Disposal of the construction waste debris:	Excavated earth material will be used for filling of plinth area & top soil for Landscaping
Waste generation in the operation Phase:	**Dry waste:**	660 Kg/day
	Wet waste:	978 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	56 Kg/day
	Others if any:	E Waste- Residential -0.5 kg/year per person Commercial -1 kg/year per person

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling & disposal purpose
	Wet waste:	Through Mechanical Composter (Smart OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure for gardening purpose or will be disposed off as per CPHEEO manual on sewerage
	Others if any:	E Waste-Handed over to authorized recycler for further handling & disposal purpose
Area requirement:	**Location(s):**	Locations are as per master layout
	Area for the storage of waste & other material:	27 sqm
	Area for machinery:	8 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 25.75 Lakh
	O & M cost:	Rs. 5.46 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	160 KVA	Diesel 36.9 lit/hr	1	4	0.100 m	522ºC
2	125 KVA	Diesel 30.25 lit/hr	1	4	0.100 m	553ºC
3	100 KVA	Diesel-24.4 lit/hr	1	4	0.100 m	553ºC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total

1	Diesel	160 KVA ,125 KVA ,100 KVA	Not Required	3
41.Source of Fuel		Authorized Dealer		
42.Mode of Transportation of fuel to site		Barrels in Closed Tampo		

43.Green Belt Development	**Total RG area :**	3510.38 sqm i.e 13.72 % of net plot area (25572.15 sqm)+ Additional RG area - 105.84 Sqm, Total RG Area- 3616.22
	No of trees to be cut :	0
	Number of trees to be planted :	Total- 327 (Existing - 277, Proposed - 50)
	List of proposed native trees :	Tamhan,Umber,Peru,Sita Asoka,Gulmohar,Mohgali,Kanchan,Parijatak,Limba,Jambhul,Shivan,Karanj,Son chafa,Supari,Bakul,Subabhul,Phanas,Chiku,Naral,Shisav,Kashid,Vada,Badam,Pimpal,Chafa,Bottle Palm,Cordiya,Bakul,cycus,Sitafal,Satwin,Maharukh,Kadamb,Fish Tail Palm,Pangara,Kunti
	Timeline for completion of plantation :	6 month 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	Lagerstroemia flos reginae	Tamhan	57	State flower tree of Maharashtra,Medium sized tree, beautiful purple flowers
2	Ficus glomurata	Umber	2	"Medicinal value, Edible fruits, Bird attracting species "
3	Psidium guajava	Peru	1	"Medicinal value, Edible fruits, Bird attracting species "
4	Saraca asoka	Sita Asoka	1	Shady tree with red-yellow flowers.
5	Delonix regia	Gulmohar	3	"Fragrant flowers, Medicinal value, covers the part as canopy under its flower "
6	Butea monosperma	Palas	1	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
7	Bauhinia variegata	Kanchan	24	"Every part of the plant is medicinal, Drought tolerant species. "
8	Nyctanthus arbor-tritrits	Parijatak	9	"Fragrant flowers, Medicinal value, "
9	Terminalia superba	Limba	17	domed or flat crown, produces the flower,
10	Syzygium cumini	Jambhul	1	fast growing evergreen trees,can live more than 100 years,fragrant flowers,edible fruits
11	Gmelina arborea	Shivan	21	fast growing deciduous tree with yellow flower, medical use tree
12	Pongamia pinnata	Karanj	19	"Medicinal value, Drought tolerant species, To control soil erosion. "
13	Michela champaca	Son chafa	5	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plan
14	Areca catechu	Supari	35	Having medicinal properties, edible fruits,important herbal medicine

15	Mimusops elengi	Bakul	26	sweet scented flowers, medicinal tree with edible parts
16	Leucaena leucocephala	Subabhul	4	highly drought resistant,withstands variations in rainfall, sunlight, windstorm, slight frost and drought
17	Artocarpus heterophyllus	Phanas	1	Medicinal Uses,whole plant can be used,edible fruits,
18	Manilkara zapota	Chiku	1	Medium sized Fruit Bearing Tree
19	Cocos nucifera	Naral	1	firmly anchored in the ground with roots that grow both sideways and downwards to groundwater,edible foot,medicinal uses,good blossom
20	Dalbbergia sisoo	Shisav	1	"Medicinal value, Bird attracting species "
21	Cassia siamea	Kashid	1	Medicinal use,edible after removing the toxins
22	Ficus benghalensis	Vada	1	Native tree,medicinal use, edible fruits,hard and durable in any season
23	Prunus dulcis	Badam	6	Medicinal use,edible healthy fruit
24	Ficus religiosa	Pimpal	1	large, fast growing deciduous tree,Medicinal uses,leaves are useful
25	Plumeria obtusa	Chafa	2	evergreen tree,creamy white flowers with good fregarance,can be grown in frost-free, subtropical climates,
26	Hyophorbe lagenicaulis	Bottle Palm	16	easy to grow and maintain,gives flowers,Easy to maintain,healthy palm
27	Cordiya	Cordiya	6	used as Ornamental,edible leaves,produces glue
28	Mimosups elengii	Bakul	3	"Fragrant flowers, Medicinal value, To control soil erosion "
29	Cycas	Cycas	8	Withstands in various weather condition, easy to grow
30	Annona squaosa	Sitafal	1	Medium sized Fruit Bearing Tree
31	Alstonia scholaris	Satwin	2	Tall evergreen tree
32	Ailanthus excelsa	Maharukh	12	Large tree, good for roadside plantation
33	Anthosaphalus kadamba	Kadamb	8	Shady, large tree, ball shaped flowers.
34	Caryota urens	Fish Tail Palm	9	Tall evergreen tree
35	Erythrina indica	Pangara	12	Medium sized deciduous tree. Bright scarlet flowers.
36	Murrayya paniulate	Kunti	9	Small tree, Fragrant white flowers, Butterfly host plant
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Spider Lily	0.23	10

2	Plumeria Alba	1.6	5
3	Nyctanthes Arbortritis	1	5
4	Foxtail Palm	2	10
5	Golden Bamboo	0.45	2.5
6	Hibiscus	0.3	3

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	150 KVA
	During Operation phase (Connected load):	4241.00 KW
	During Operation phase (Demand load):	1802 KW
	Transformer:	(630 KVA X 3 nos.), (500 kVA X 2 nos.) & (315 kVA X 1 no.)
	DG set as Power back-up during operation phase:	(160 KVA X 1 no. ,125 KVA X 1 no. ,100 KVA X 1 no.)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Using Conventional CFL & LED - 43.02%
Using Conventional CFL & T5 - 30.55%
Using Low Loss Transformer - 8.57%
Using Solar Water Heater -75.34 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Using Conventional CFL & LED	43.02%
2	Using Conventional CFL & T5	30.55%
3	Using Low Loss Transformer	8.57%
4	Using Solar Water heater	75.34%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Effluent	STP	NA
Biodegradable waste	OWC	NA
DG Set	Installed DG Set which compiles to CPCB norms	NA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 60.61 Lakh
	O & M cost:	Rs. 10.50 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	Water For Dust Suppression , Air & Noise Monitoring	1.10
2	Water	Tanker Water For Construction, Water Monitoring	2.03
3	Land	Site Sanitation	7.02
4	Socio-Economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Personal Protective Equipment	7.80

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	Including external drainage connection, STP cost considered	94.82	10.6
2	Rain Water Harvesting	RWH pits will be provided.	9.22	0.8
3	Storm Water Networking	To assure proper disposal of Storm Water	1	0.5
4	Solid Waste Management	To assure proper disposal of Dry and Wet Waste, OWC will be provided	25.75	5.46
5	Landscape	As required by the authorities to help environment	38.91	4.20
6	Energy	With all said energy saving measures like solar panels etc.	60.61	10.5
7	Environmental Monitoring	Air,Noise,Water,Effluent tests as per government norms	NA	2.95

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:	As per Parking & Traffic Management Plan
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	1 no. of podium with area 2556.97 m2
	Total Parking area:	16215 Sq.m
	Area per car:	12.50 sq. m
	Area per car:	12.50 sq. m
	Number of 2-Wheelers as approved by competent authority:	1150 nos.
	Number of 4-Wheelers as approved by competent authority:	446 nos.
	Public Transport:	Bus Stop is Available
	Width of all Internal roads (m):	6 mtr
	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 Application for expansion in Environment Clearance for Residential & Commercial project at Plot No 69 in S. No.55 (P), at Wadgaonsheri, Tal- Haveli, Dist- Pune by M/s.Kumar Primavera.

PP submitted their application for prior Environmental clearance for total plot area of 29,507.53 Sq. Mtrs, FSI area of 41410.56 Sq. Mtrs, Non FSI area of 30174.15 Sq.m and total BUA of 71584.71 Sq. Mtrs. PP proposes to construct total 15 residential buildings, 1 residential with club house.

The initial EC was granted to the project on 12th June 2007 for FSI area 38,250 sqm. The project was considered in 46th SEAC meeting. Due to difference in the submitted data and presented data committee decided to differ the case till corrected data was furnished.

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

The Earlier EC was issued to this project on 12th June 2007, SEAC decided to refer this project to SEIAA for revalidation of EC.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Proposed Commercial Development

Is a Violation Case: No

1.Name of Project	Proposed Commercial Project Kakade Green Estate Pvt.Ltd. at PLOT NO.C S.NO.16, 18,19,51,53 (PART), Village-Kopre Gaothan,Hingane, Tal-Haveli, Pune
2.Type of institution	Private
3.Name of Project Proponent	Kakade Green Estate Pvt.Ltd
4.Name of Consultant	ULTRATECH
5.Type of project	Private
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	New
8.Location of the project	PLOT NO.C S.NO.16, 18,19,51,53 (PART), Village-Kopre Gaothan,Hingane, Tal-Haveli, Pune
9.Taluka	Haveli
10.Village	Kopre Gaothan,Hingane
Correspondence Name:	Mr Chandrakant Boda
Room Number:	1205
Floor:	NA
Building Name:	Kakade capital
Road/Street Name:	Shirole road
Locality:	Shivajinagar
City:	Pune
11.Area of the project	Pune Municipal Corpotration
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: Applied
	Approved Built-up Area: 22063.28
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	11269.53
16.Deductions	3914.92
17.Net Plot area	7354.60
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22063.28
	b) Non FSI area (sq. m.): 21776.23
	c) Total BUA area (sq. m.): 43839.94
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 43839.51
	Approved Non FSI area (sq. m.): 22063.28
	Date of Approval: 26-02-2018
19.Total ground coverage (m2)	Basement 5598.08 and Floor coverage 3375.72
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Basement 49.67 and Floor coverage 29.95
21.Estimated cost of the project	10000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Commercial Building-1	4 B+LG+UG+ 6 FL	31

23.Number of tenants and shops	Office 99nos. Shops 73 nos.
24.Number of expected residents / users	4076
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)	42m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	82
	Recycled water - Flushing (CMD):	102
	Recycled water - Gardening (CMD):	4
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	188
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	64

Wet season:	**Source of water**	PMC
	Fresh water (CMD):	82
	Recycled water - Flushing (CMD):	102
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	184
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	68
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	82	82	Not applicable	8.2	8.2	Not applicable	8.2	8.2
Domestic	Not applicable	102	102	Not applicable	102	102	Not applicable	102	102
Gardening	Not applicable	4	4	Not applicable	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4- 14 mtr below ground level
	Size and no of RWH tank(s) and Quantity:	1 RWH tank of-72 Cum
	Location of the RWH tank(s):	shown in plan
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	10.08 Lakh
	Budgetary allocation (O & M cost) :	0.50 Lakh/year
	Details of UGT tanks if any :	" Domestic : 122 CuM Drinking : 0 CuM Fire : 200 CuM Flushing : 102 CuM "
35.Storm water drainage	**Natural water drainage pattern:**	S to N
	Quantity of storm water:	0.1212 m3/sec
	Size of SWD:	450 x 300 mm wide trench
Sewage and Waste water	**Sewage generation in KLD:**	175 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 Nos. - 195 m3/day
	Location & area of the STP:	Locations are as per master layout ; 103.5 sqm
	Budgetary allocation (Capital cost):	49.50 Lakh
	Budgetary allocation (O & M cost):	11.12 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	12.00 kg/day
	Disposal of the construction waste debris:	Excavated earth material will be used for filling of plinth area & top soil for Landscaping
Waste generation in the operation Phase:	**Dry waste:**	611 Kg/day
	Wet waste:	408 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	29 Kg/day
	Others if any:	E Waste-1 kg/year per person

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling & disposal purpose
	Wet waste:	Through Mechanical Composter (Smart OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	used as manure for gardening purpose
	Others if any:	NA
Area requirement:	**Location(s):**	Locations are as per master layout
	Area for the storage of waste & other material:	14 sqm
	Area for machinery:	45 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	14.75 Lakh
	O & M cost:	3.13 Lakh/year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not any	6.0 – 8.5	5.5 - 9.0	5.5 - 9.0
2	Oil & Grease	mg/l	10 – 20	<10	<10
3	Biological Oxigen Demand	mg/l	200 – 250	<10	<10
4	Chemical Oxigen Demand	mg/l	350 – 450	<50	<50
5	Total Suspended Solid	mg/l	150 – 200	<10	<10

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	400 Kva	Diesel 88 lit/hr	2	-8	0.152m	491ºC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Not applicable	400 KVA-88 litre/hr	400 KVA-88 litre/hr
41.Source of Fuel		near by pump		
42.Mode of Transportation of fuel to site		Barrels in Closed Tampo		

43.Green Belt Development	**Total RG area :**	735.46 sqm
	No of trees to be cut :	0
	Number of trees to be planted :	100
	List of proposed native trees :	Maharukh, Kadamb, Fish Tail Palm, Pangara, Kunti, Son Chafa,Sita Asoka, Tamhan, Chiku,Palas, Sitafal,Shivan
	Timeline for completion of plantation :	Till the completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ailanthus excelsa	Maharukh	7	Large tree, good for roadside plantation
2	Anthosaphalus kadamba	Kadamb	10	Shady, large tree, ball shaped flowers.
3	Caryota urens	Fish Tail Palm	16	Tall evergreen tree
4	Erythrina indica	Pangara	12	Medium sized deciduous tree. Bright scarlet flowers.
5	Murrayya paniulate	Kunti	6	Small tree, Fragrant white flowers, Butterfly host plant
6	Michela champaca	Son Chafa	8	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
7	Saraca asoka	Sita Asoka	7	Shady tree with red-yellow flowers.
8	Lagestromia flosre genia	Tamhan	9	State flower tree of Maharashtra,
9	Manilkara zapota	Chiku	5	Medium sized tree, beautiful purple flowers
10	Butea monosperma	Palas	8	Evergreen Fruit Bearing Tree
11	Gmelina arborea	Shivan	6	Medium sized deciduous tree. Beautiful orange flowers,
12	Annona squaosa	Sitafal	6	Evergreen Fruit Bearing Tree
45.Total quantity of plants on ground				

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

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

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	150 KVA
	During Operation phase (Connected load):	3162.00 KW
	During Operation phase (Demand load):	1715.00 KVA
	Transformer:	Commercial(630 KVA X 3)
	DG set as Power back-up during operation phase:	Commercial (400 KVA X 1)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

"Using Conventional CFL & LED -95669.2 Kwh/Yr i.e 28.79%
Using Low Loss Transformer -3153.6 Kwh/Yr i.e 8.57%
Using Solar Water Heater -NA
PV Cell-13.7 KW (1 % of demand Load)"

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Using Conventional CFL & LED	28.79%
2	Using Low Loss Transformer	8.57%
3	Using Solar Water heater	0.00%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Domestic sewage	NA	STP
MSW	NA	OWC
DG Set	NA	Installing DG Set which compiles to CPCB norms.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	65.32 Lakh
	O & M cost:	8.24 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	0.32

2	WATER ENVIRONMENT	tanker water for construction, Water monitoring	1.41
3	LAND ENVIRONMENT	SITE SANITATION	0.74
4	BIOLOGICAL ENVIRONMENT	Gardening	2.04
5	SOCIO- ECONOMIC ENVIRONMENT	DISINFECTION- PEST CONTROL first aid facilites HEALTH CHECK UP Creches for children Personal protective equipment	1.66

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	treatment of sewage	49.5	14.42
2	Rain Water Harvesting	construction of RWH tank	10.08	0.5
3	Storm Water Networking	To assure proper disposal of Storm Water	1	0.5
4	Solid Waste Management	To assure proper disposal of Dry and Wet Waste, 1 no OWC will be provided	14.75	3.13
5	Landscape	Development of green belt	6.96	2.04
6	Electrical	Energy saving	65.32	8.24
7	Environmental Monitoring	Air,Noise,Water,Effluent tests as per government norms	MoEF approved lab.	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:	12M WIDE DP ROAD

Parking details:	**Number and area of basement:**	4 nos. of basement having area 16599.73 Sqm
	Number and area of podia:	NA
	Total Parking area:	17249.62
	Area per car:	32.73
	Area per car:	32.73
	Number of 2-Wheelers as approved by competent authority:	1509
	Number of 4-Wheelers as approved by competent authority:	556
	Public Transport:	VIA BUS
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Commercial Development at Plot No.cs.no.16,18,19,51,53 (PART), Village-Kopre Gaothan,Hingane, Tal-Haveli,Pune by M/s.Kakade Green Estate Pvt.Ltd.

PP submitted their application for prior Environmental clearance for total plot area of 11,269.53 Sq. Mtrs, FSI area of 22,063.28 Sq. Mtrs, Non FSI area of 21776.23 Sq.m and total BUA of 43,839.94 Sq. Mtrs. PP proposes to construct total 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 Water NOC, Tree Authority NOC,E-Waste NOC.
2) PP to submit DMP with light arrestor and its cost.
3) PP to submit debris management plan with details where the excess debris is proposed to be shifted along with ownership details and plot capacity to absorb debris to an extent of 60,000 cu.mtr.
4) PP to submit traffic impact assessment plan of all the surrounding area.
5) PP to submit parking area statement showing that various 4 basement proposed –car park with area per car to be submitted.
6) PP to submit basement ventilation plan including water draining arrangement and sprinklers etc.
7) PP to submit sewer plan and its NOC.
8) PP to submit energy calculations along with terrace plan.
9) PP to submit PP to submit undertaking for implementation of CER.
10) PP to submit undertaking stating work has not started.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Environment Clearance for "Fortune Empress" Proposed Residential & Commercial Building Project at S.No. 16/1/1, 16/1/2, 16/1/4, 16/1/5, Mouje, Autade- Handewadi, Taluka Haveli Dist. Pune 412308 by M/s Shree Shankar Associates.

Is a Violation Case: No

1.Name of Project	"Fortune Empress" Proposed Residential & Commercial Building Project at S.No. 16/1/1, 16/1/2, 16/1/4, 16/1/5, Mouje, Autade- Handewadi, Taluka Haveli Dist. Pune 412308
2.Type of institution	Private
3.Name of Project Proponent	Mr. Satish Shivlal Kokate. M/s. Shree Shankar Associates.
4.Name of Consultant	VK environment LLP
5.Type of project	Residential and commercial project.
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 16/1/1, 16/1/2, 16/1/4, 16/1/5, Mouje, Autade- Handewadi, Taluka Haveli Dist. Pune 412308 by M/s Shree Shankar Associates.
9.Taluka	Haveli
10.Village	Autade- Handewadi
Correspondence Name:	Mr. Satish Shivlal Kokate. M/s. Shree Shankar Associates.
Room Number:	Office 110,111
Floor:	3rd floor
Building Name:	Vishal Ventilla
Road/Street Name:	Magarpatta road
Locality:	Hadapsar
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:
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.)	14,750.00
16.Deductions	1,375.00 sq mt for road widening. 2006.25 sq mt for amenity
17.Net Plot area	10,231.87
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20,962.04
	b) Non FSI area (sq. m.): 13,326.37
	c) Total BUA area (sq. m.): 34289
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: 17-07-2018
19.Total ground coverage (m2)	2250.74
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21.99%
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	Building A	P+13	39.90
2	Building B	P+12	37.05
3	Building C	P+12	37.05

23.Number of tenants and shops	Residential: 375 Flats Shops:12 Offices: 26
24.Number of expected residents / users	Residential: 1875, Commercial: 818
25.Tenant density per hectare	1271.18 to net plot area.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	60
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9
29.Existing structure (s) if any	2 old godowns.
30.Details of the demolition with disposal (If applicable)	Two old godowns are present on the site & will be demolished. Debris generated will be reused in site for site leveling. All the other materials will be handed over and reused by godown owner.

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**	Gram Panchayat Autade- Handewadi
	Fresh water (CMD):	185
	Recycled water - Flushing (CMD):	105
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	300
	Fire fighting - Underground water tank(CMD):	150 kld for all buildings
	Fire fighting - Overhead water tank(CMD):	20 kld for each building
	Excess treated water	117 kld
Wet season:	**Source of water**	Gram Panchayat Autade- Handewadi
	Fresh water (CMD):	185
	Recycled water - Flushing (CMD):	105
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	290
	Fire fighting - Underground water tank(CMD):	150 kld for all buildings
	Fire fighting - Overhead water tank(CMD):	20 kld for each building
	Excess treated water	127 kld
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:**	Post monsoon water level 5.50 m bgl . Pre monsoon water level 10.50 m bgl
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	4 nos.
	Size of recharge pits :	2m x 2m x 2m
	Budgetary allocation (Capital cost) :	1,47,000
	Budgetary allocation (O & M cost) :	20,000
	Details of UGT tanks if any :	1,50,000 liters x 1 = Fire 3,50,000 liters x 1= Domestic Water 85,000 liters x 1= Fresh Water 37,000 liters x 1= Commercial Demand
35.Storm water drainage	**Natural water drainage pattern:**	Overflow/surplus water from the recharge pit will be discharged into storm water drainage
	Quantity of storm water:	4757.085 m3/year
	Size of SWD:	450- 600mm
Sewage and Waste water	**Sewage generation in KLD:**	Waste water 232 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	260 KLD
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	60,25,000
	Budgetary allocation (O & M cost):	14,06,000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	From labors 10kg/day.
	Disposal of the construction waste debris:	The construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling.
Waste generation in the operation Phase:	**Dry waste:**	498 kg
	Wet waste:	644 kg
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	17.53 kg/day
	Others if any:	E-waste- 4.8 kg/day

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWaCH
	Wet waste:	Will be treated in organic Waster Converter (OWC)
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dried sludge form STP will be used in manure.
	Others if any:	E waste will be given to authorized recycler
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	17 sqm
	Area for machinery:	63 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20,75,000
	O & M cost:	4,71,204

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 :**	1444.06 sqm
	No of trees to be cut :	0
	Number of trees to be planted :	170
	List of proposed native trees :	Please refer below list.
	Timeline for completion of plantation :	Till operation phase.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygium cumini	Jambhul Tree	5	A large size tree with dense foliage provides shade along roads; wood is water resistant and attracts a variety of birds.
2	Millingtonia hortensis	Indian cork tree	20	A columnar, evergreen tree, grows well in both dry and moist regions.
3	Lagerstromia flos-regineae	Tamhan	12	Large tree good for stopping soil erosion along canal banks.
4	Azadirachta indica	Neem	20	A medium to large size hardy tree which stand in drought conditions. Air Purifying quality Attain a much larger size in dry regions.
5	Pongamia pinnata	Karanj	17	Large tree good for stopping soil erosion along canal banks
6	Cassia fistula	Bahava	13	Small deciduous tree. Excellent bright flowering tree for arid regions.
7	Ficus benjamina	Weeping Fig	15	Medium sized evergreen tree with elegant appearance and moderate water requirement.
8	Plumeria alba	Champa	11	Ornamental flowering tree
9	Michelia champaca	Sonchapha	15	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
10	Polyathia longifolia	Ashoka	20	Large evergreen tree Effective in decreasing noise pollution.
11	Mangifera indica	Mango	7	Large evergreen and fruit bearing tree
12	Albizia lebeck	Shirish	15	Shady, large tree, ball shaped flowers
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited
	During Construction Phase: (Demand Load)	201 KW
	DG set as Power back-up during construction phase	1 x 125 KVA
	During Operation phase (Connected load):	1941 KW
	During Operation phase (Demand load):	1004 KW
	Transformer:	2 x 630 KVA
	DG set as Power back-up during operation phase:	1 x 125 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Solar Hot water is proposed to all the flats.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Using solar hot water	70 liter/flat/day

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Solar hot water and solar PV 31,88,000
	O & M cost:	Solar hot water and solar 3,18,800

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	15.63
2	Land	Labor Camp toilet & sanitation	2.40
3	Health and safety	Labor Safety Equipment's and training	2
4	Environment	Environmental Monitoring	1.85

5	Health and safety	Disinfection and health checkups.	0.28
6	Environmental Management	Environmental Monitoring Cell	1.70

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	60.25	14.06
2	Solid Waste Management	1 OWC	20.75	4.71
3	Landscaping	Development and maintenance of green area	3.53	0.35
4	Rain water harvesting	4 pits	1.47	0.2
5	Environmental Monitoring	Air, water, noise, soil, waste water, OWC manure	-	1.85
6	Renewable Energy	Solar Hot water System	31.88	3.19

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	4772.60 sqm
	Area per car:	12.5 sqm
	Area per car:	12.5 sqm
	Number of 2-Wheelers as approved by competent authority:	544
	Number of 4-Wheelers as approved by competent authority:	125
	Public Transport:	Nil
	Width of all Internal roads (m):	6 mts
	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	Building and construction.
	Court cases pending if any	No court case pending
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for "Fortune Empress"Proposed Residential & Commercial Building Project at S.No. 16/1/1,16/1/2, 16/1/4, 16/1/5, Mouje, Autade- Handewadi, Taluka Haveli Dist.Pune by M/s Shree Shankar Associates.

PP submitted their application for prior Environmental clearance for total plot area of 14,750.00 Sq. Mtrs, FSI area of 20,962.04 Sq. Mtrs, Non FSI area of 13,326.37 Sq.m and total BUA of 34,289 Sq. Mtrs. PP proposes to construct total 03 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 Energy saving calculations.
2) PP to submit revised EMP plan.
3) 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 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Environmental Clearance For Construction Project , S.No. 19/(1 To 7+9)/1 , Plot No - 01 At - Kiwale, Masulkar City, Pune

Is a Violation Case: No

1.Name of Project	" Little Earth Masulkar City "
2.Type of institution	Private
3.Name of Project Proponent	Mr. Nitin Kulkarni
4.Name of Consultant	Mrs. Anuja Bansod Goldfinch Engineering System Private Limited Plot No. A-288, Road No. 16 Z, Opp. Agriculture Office Bus-stop, Thane Industrial Area, MIDC (Wagle Estate), Thane (W) – 400 604., Maharashtra, India. PH: 91-22-2580 1529/21/46 Accreditation No : NABET/EIA/1518/RA0066
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expenssion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 19/(1 To 7+9)/1, Plot No - 01 At - Kiwale, Masulkar City, Pune
9.Taluka	Haveli
10.Village	Kiwale
Correspondence Name:	--
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	Kiwale
City:	PCMC
11.Area of the project	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: INWD/EC/KVL/0001/18
	Approved Built-up Area: 284095.23
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	101000.67
16.Deductions	18250.61
17.Net Plot area	82739.45
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 147647.12
	b) Non FSI area (sq. m.): 136448.11
	c) Total BUA area (sq. m.): 284095.23
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 147647.12 sq.mt.
	Approved Non FSI area (sq. m.): 136448.11 sq.mt.
	Date of Approval: 09-11-2017
19.Total ground coverage (m2)	13059.61
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	16
21.Estimated cost of the project	480000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	2P+10	36.20 m
2	B1	2P+12	42.20 m
3	B2	2P+12	42.20 m
4	B3	2P+12	42.20 m
5	B4	2P+12	42.20 m
6	B5	2P+16	54.20 m
7	B6	2P+16	54.20 m
8	B7	2P+16	54.20 m
9	B8	2P+16	54.20 m
10	B11	2P+16	54.20 m
11	B12	2P+16	54.20 m
12	C10	P+16	51.10 m
13	C11	P+16	51.10 m
14	C12	P+16	51.10 m
15	C13	P+16	51.10 m
16	C14	P+16	51.10 m
17	C15	P+16	51.10 m
18	C16	P+16	51.10 m
19	C17	P+16	51.10 m
20	C18	P+16	51.10 m
21	C19	P+12	39.10 m
22	C20	P+12	39.10 m
23	C21	P+12	39.10 m
24	D1	P+14	45.10 m
25	D2	P+14	45.10 m
26	COMMERCIAL A	P+G+1	9.90 m
27	COMMERCIAL B	P+G+1	10.45 m
28	CLUBHOUSE 01	G+1	7.20 m
29	CLUBHOUSE 02	G+1	7.20 m
30	CLUBHOUSE 03	G+1	7.20 m
31	CLUBHOUSE 04	G+1	7.20 m
32	CLUBHOUSE 05	G+1	7.20 m

23.Number of tenants and shops	Tenanment : 2271 Nos , Shop 86 Nos
24.Number of expected residents / users	12420 nos.
25.Tenant density per hectare	250/ha
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest fire station distance 11 km (Life Republic Fire Station)
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)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	1035.15
	Recycled water - Flushing (CMD):	526.13
	Recycled water - Gardening (CMD):	12.00
	Swimming pool make up (Cum):	3.60
	Total Water Requirement (CMD) :	1573.28
	Fire fighting - Underground water tank(CMD):	1950.00
	Fire fighting - Overhead water tank(CMD):	420.00
	Excess treated water	867.02

Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	1035.15
	Recycled water - Flushing (CMD):	526.13
	Recycled water - Gardening (CMD):	---
	Swimming pool make up (Cum):	3.60
	Total Water Requirement (CMD) :	1561.28
	Fire fighting - Underground water tank(CMD):	1950.00
	Fire fighting - Overhead water tank(CMD):	420.00
	Excess treated water	879.02
Details of Swimming pool (If any)	Dimension of Swimming Pool : Main Pool : 19 m x 9m x1.2m Kids pool : 9.0mx 5.5mx 0.6m Balancing tank: 5.5m x 4m x 1.2m Total Water Requirement in KLD : 270 KLD Water requirement for make up in KLD : 6 KLD Details of Plant & Machinery used for treatment of Swimming pool water : A) Pool Disinfection system : Rapid and filtration system with Ozonation and partial chlorination. B) Pool Type : overflow channel. C) Filtration Flow Rate : 33m3/hr x 2 filter = 66m3/hr. D) Filtration Velocity :40m3/hr/m2. Filtration Turn Over : 4.09 hrs. Capital Cost : 60 .00lakhs O & M cost : 7.00 lakhs/year	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre- Monsoon : 10 Mt. Post – Monsoon : 3.5 Mt.
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5 nos
	Size of recharge pits :	2 Mt. x 2 Mt. x 2 Mt.
	Budgetary allocation (Capital cost) :	3.00 Lacs
	Budgetary allocation (O & M cost) :	0.25 Lacs
	Details of UGT tanks if any :	FOR DOMESTIC Cap (lit) : 1497780 FOR FIRE FIGHTING Cap (lit) : 2500000 FOR FLUSHING CAP (lit) :789187.5
35.Storm water drainage	**Natural water drainage pattern:**	Inspection Chamber with pipe
	Quantity of storm water:	Quantity of storm water (Annual average): 49490 m3
	Size of SWD:	Dia 1000 mm
Sewage and Waste water	**Sewage generation in KLD:**	1405
	STP technology:	MBBR
	Capacity of STP (CMD):	Zone 1 – 250 Zone 2 – 450 Zone 3 – 680 Zone 4 - 140
	Location & area of the STP:	Decentralised
	Budgetary allocation (Capital cost):	341.32 Lacs
	Budgetary allocation (O & M cost):	62.83 Lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	366 Kg
	Wet waste:	549
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be sent for recycling to Swach
	Wet waste:	Wet waste will be converting to composting for by OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP sludge sent to SWM site for converting in to compost
	Others if any:	NA
Area requirement:	**Location(s):**	Decentralised
	Area for the storage of waste & other material:	30 x 10 fts
	Area for machinery:	25 x 6 x 8 fts
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	7.56 Lacs
	O & M cost:	5.40 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 :**	10740.1
	No of trees to be cut :	NA
	Number of trees to be planted :	1262
	List of proposed native trees :	Bakul , Kadamb, Nindian Beech
	Timeline for completion of plantation :	After 1 Year Project Complition

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bakul	Mimusops elengi	56	Shady tree, small white fragrant flowers
2	Kadamb	Anthocephallus cadamba	48	Fruit Bearing Tree Attracts Birds
3	Nindian Beech	Pongamia Glabra	41	Good Medicinal Use
4	Golden Shower	Cassia Fistula	34	Auspicious Attract Birds/Bees/Butterfiles Hanging Or Weeping Growth
5	Rakta Kanchan	Bauhinia Purpuria	79	Fragrant Flowers Or Leaves Plant For Pooja, Evergreen Tree
6	Putranjiva	Putrajiva Roxburghii	19	Medium Size Ever Gree Tree
7	Sonchapa	Michellia Chamapaka	45	Flower Butterfly Host Plant Medium Size Evergreen Tree, Fragrant
8	Jarul	Lagerstromia Flosregina	49	Creates Shade Attract Birds/Bees/Butterfiles Good For Screening
9	Elephant Apple	Dillenia Indica	66	Fruit Bering Tree Attracts Birds Medicinal Use
10	Manataly	Terminalia Mantaly	36	Evergreen with horizontal layered branches
11	Shirish	Albizia Lebbeck	18	Frangrant Flowers Or Leaes Attract Birds/ Butterflies /Bees Drough Tolerant
12	Mango	Mangifera Indica	18	Tall Evergreen Tree With Fruit Bearing
13	Jackfruit	Artocarpus Heterophyllus	49	Tall Evergreen Tree With Fruit Bearing
14	Jamun	Syzygium Cumini	34	Tall Evergreen Tree With Fruit Bearing
15	Neem	Azadirechta Indica	21	Plant For Pooja/Evergreen Fragrant Flowers Or Leaves Quick Groving / Insect Repellent
16	Khaya	Khaya Grandis	27	Evergreen Tree
17	Sita Ashoka	Saraca Indica	32	Fragrant Flowers Or Leaves Attract Birds/Butterflies/Bees Deep Green, Shiny Foliage

18	Palas	Butea Monosherma	32	Fragrant Flowers Or Leaves Flowers Covering The Entire Crown Plant For Pooja
19	Cork Tree	Milingtonia Hortensis	51	Tall Evergreen Tree With Fragrant White Flowers
20	Pimpal	Ficus Religiosa	12	Religious Tree With Medicinal Use
21	Badam	Terminalia Catappa	22	Evergreen Fruit Bearing Tree Attracts Birds
22	Mohogany	Swietenia Macrophylla	27	Big Shady Tree
23	Apta	Bauhinia Blackiana	37	Semi Evergreen Tree With Medical Value
24	Parijatak	Nyctanths Arbor-Tristis	49	Small Tree, With Small White Flower Beautifuly Host Plant
25	Karmal	Dillenia Ceiba	28	Medicinal Tree Non- Toxic Tree
26	Chapha	Plumeria Alba	114	Fragrant Flowers Or Leaves Attract Birds/Butterflies/Bees Quick Groving/For Pooja
27	Supari Palms	Areca Catechu	86	Ornamental Nutty Tree
28	Fishtail Palms	Caryota Urens	26	Tall Evergreen Tree
29	Washingtonia Palms	Washingtonia Robusta	22	Busy Palm For Avenue
30	Royal Palms	Roystonea Regia	38	Tall Evergreen Tree With Fruit Bearing
31	Foxtail Palms	Wodyetia Bifurcata	46	Tall Evergreen Tree With Fruit Bearing
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Jai	0.45 m	95.04
2	Ratrani	0.45 m	110.00
3	Tulsi	0.45 m	113.11
4	White Plumbago	0.45 m	176.00
5	Kanher	0.45 m	134.00
6	Tagar/ Chandani	0.45 m	172.00
7	Spyder Lily	0.30 m	141.22
8	Wadelia	0.23 m	147.00
9	Abelia	0.23 m	97.00
10	Mogra	0.45 m	111.00

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	76.25 KVA
	DG set as Power back-up during construction phase	82.5KVA
	During Operation phase (Connected load):	11288.65 KW
	During Operation phase (Demand load):	5587.81 KVA
	Transformer:	630 KVA X 9 nos.
	DG set as Power back-up during operation phase:	365 KVA X 1 nos.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

1 Timers and contactors will be used to switch on / off common are & external landscape and facade lighting.
2 LED fittings will be used for corridors ,Lobbies and common areas.
3 Energy efficient LED lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. Of fixtures and corresponding lower point wiring costs.
4 All cables will be derated to avoid heating during use. This also indirectly reduces losses and improves reliability. To achieve the same we have considered current carrying capacity of all the cables laid through ground/air whichever is minimum.
5 125 Ltrs Solar water is provided for each flat .
6 Solar PV panel system is proposed for Street lighting & Building common load.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	SOLAR WATER HEATING SYSTEM +SOLAR PV PANELS+ LIGHT FITTING TYPE AND TIMER SAVINGS (FOR COMMON AREA) UNITS PER YEAR.	21%

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:**	75.00 Lacs
	O & M cost:	3.75 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	Water	Dust Suppression	0.7

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, water, Noise, Soil	Post Project Environment Monitoring	0	0.125
2	Water	Rainwater Harvesting	3.00	0.25
3	Wastewater	Sewage Treatment Plant	341.32	62.83
4	Municipal Solid waste	Solid waste Management	7.56	5.40
5	Plantation	Landscaping	171.00	2.50
6	Energy	Energy Savings	75.00	3.75

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	27412.62 sq.mt.
	Total Parking area:	30588.71 sq.mt.
	Area per car:	30 sq.mt. (including driveway)
	Area per car:	30 sq.mt. (including driveway)
	Number of 2-Wheelers as approved by competent authority:	4734 nos.
	Number of 4-Wheelers as approved by competent authority:	1200 nos.
	Public Transport:	Available near to side
	Width of all Internal roads (m):	6 & 7.50 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for construction Project, S.No.19/(1 To 7+9)/1 ,Plot No- 01 At - Kiwale, Masulkar City, Pune by Little Earth MasulkarCity.

PP submitted their application for Expansion Environmental clearance for expansion of the previous EC having total plot area of 101000 Sq. Mtrs, BUA of 219849.82 Sq. Mtrs, FSI area of 120190 Sq. Mtrs & Non FSI area is 99658.82 Sq.m .Now PP proposes to construct total plot area of 101000 Sq. Mtrs, BUA of 284095.23 Sq. Mtrs, FSI area of 147647.12 Sq. Mtrs & Non FSI area is 136448.11 Sq.m . PP proposes to construct total 25 residential, 2 commercial buildings and 5 Club houses.

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

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 architect certificate of work initiated on site as per earlier EC.
4) PP to submit comparative statement of components approved and components constructed as per earlier EC and proposed development.
5) 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.
6) 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.
7) PP to include carbon footprint estimations for operation & construction phase in EIA report.
8) PP to carry out Traffic Impact Study in detail including, a. Traffic Management Plan for the development – Internal circulation with road width 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.
9) 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.
10) 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.
11) PP to submit parking layout plan for all the floors showing slope and width of the ramps.
12) PP to submit cross section of all buildings.
13) PP to submit parking area statement as per DCR.
14) PP to submit cross section of basement showing width and slope of ramp.
15) PP to submit details of basement parking.
16) 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.
17) PP to prepare consolidated report on traffic and vehicular pollution as a single chapter in EIA.
18) PP to carry out fugitive dust monitoring by using local meteorological data.
19) 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.
20) PP to submit detail debris management plan; PP should not remove the debris haphazardly & dump it on road side.
21) PP to submit disaster management plan.
22) 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.
23) 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.
24) PP to submit phase wise development plan considering wind rose diagram.
25) 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.
26) 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.
27) PP to submit internal storm water drain and sewer line arrangements up to final disposal point.
28) 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
29) PP to submit details hydro geological survey report with graphs & data.
30) PP to identify sources of air pollution, PP to include mitigation measures to reduce Air pollution/Noise pollution.
31) PP to provide mandatory RG area on virgin land and submit the drawing with calculations.
32) PP to submit layout showing natural water courses on site; PP to submit total runoff calculation before and after development.
33) 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.
34) PP to explore possibility to install air modelling station on site during construction as well as operation phase for ambient air quality monitoring.
35) PP to submit undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.
36) 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.
37) 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 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Proposed Construction Project by M/s Shree Sonigara Realcon

Is a Violation Case: No

1.Name of Project	Sonigara Signature Park
2.Type of institution	Private
3.Name of Project Proponent	Mr Rahul Bhagchand Sonigara
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residental & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No 21/3A, 21/2B, 21/3B/4A/1/2/1, 21/3B/4A/1/3, 21/4B/1, 21/4B/2, 21/4B/3, 21/4B/4, 21/4B/2, 21/4C, 21/4D/5A, 21/5B, 22/2, 39/3,Near Bank Of India, Dange Chowk,
9.Taluka	Pune city
10.Village	Thergaon
Correspondence Name:	Mr Atul Sonigara
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	Dange Chowk
Locality:	Thergaon
City:	Pune
11.Area of the project	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 24740.12
13.Note on the initiated work (If applicable)	Building A+B(2P+12) completed (FSI – 6274.71m2 + Non FSI – 6394.29m2 =12669.00m2)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Applicable-4238.86m2
15.Total Plot Area (sq. m.)	34250.00m2
16.Deductions	6259.83m2
17.Net Plot area	27990.17m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 63871.31 m2
	b) Non FSI area (sq. m.): 76366.08 m2
	c) Total BUA area (sq. m.): 140237.39
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 12104.57
	Approved Non FSI area (sq. m.): 12635.55
	Date of Approval: 16-01-2018
19.Total ground coverage (m2)	8284.58m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24.18% of Total plot area (34250.00m2), 29.59% of Net plot area (27990.17m2)
21.Estimated cost of the project	3689933359.28

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A+B Building	2P+12	36.00M
2	C Building	2P+12	34.80M
3	D Building	2P+12	34.80M
4	E Building	3P+12	34.80M
5	F Building	3P+12	34.80M
6	G Building	3P+12	34.80M
7	H Building	3P+12	34.80M
8	I Building	3P+12	34.80M
9	J Building	3P+12	34.80M
10	K Building (MHADA)	P+12	34.80M
11	L Building (Residential+ MHADA)	P+12	34.80M
12	Commercial Building	LB+UB+G+10	39.00M
13	Amenity-1	P+G+4	12.40M
14	Amenity-2	G+1	7.20M
15	Bungalow	G+3	12.45M
16	Bungalow-A	G+1	6.45M
17	Bungalow-B	G+1	6.45M
18	Bungalow-C	G+1	6.45M
19	Bungalow-D	G+1	6.45M

23.Number of tenants and shops	Total Tenements – 846Nos. Commercial Building= Shops-44Nos, Offices- 121 Nos, 04 screen Theatre, Banquet and 22 rooms,1 Hall & 1 Kitchen. Amenity 1= Showroom- 1 No. & Offices- 32 Nos. Amenity 2= Shops- 5 Nos. & Hall- 1 No.
24.Number of expected residents / users	Residential Users : 4230 Nos, Amenity-1 Users : 159 Nos, Amenity-2 Users: 100 Nos, Commercial Users : 1942 Nos, Total Users : 6431 Nos.
25.Tenant density per hectare	247.00
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	45.00 M wide DP Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 M
29.Existing structure (s) if any	Old Existing School Building, Bungalow-1, Bungalow-2, Bungalow-3, Chawl, Sales Office, Loadbearing House, Previous sample Flat, Existing UGT, Gas Bank,Labour Toilet, Transformer Room, Security Cabin
30.Details of the demolition with disposal (If applicable)	All the Existing structure will be demolished & debris will be used for landfilling

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):	711.61m3/day (One time)
	Recycled water - Flushing (CMD):	245.38m3/day
	Recycled water - Gardening (CMD):	30.00m3/day
	Swimming pool make up (Cum):	1.50 m3/day
	Total Water Requirement (CMD) :	436.23m3/day
	Fire fighting - Underground water tank(CMD):	475 m3
	Fire fighting - Overhead water tank(CMD):	250 m3
	Excess treated water	336.72m3/day
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	681.61m3/day (One time)
	Recycled water - Flushing (CMD):	245.38m3/day
	Recycled water - Gardening (CMD):	Not Applicable
	Swimming pool make up (Cum):	1.50 m3/day
	Total Water Requirement (CMD) :	436.23m3/day
	Fire fighting - Underground water tank(CMD):	475 m3
	Fire fighting - Overhead water tank(CMD):	250 m3
	Excess treated water	366.72m3/day
Details of Swimming pool (If any)	Dimension of Swimming Pool: 73.98 x 1.20 (Main Pool) + 38.11 x 0.60 (Kids Pool) Total water Requirement: 120.65 m3 Water requirement: Approx 1500 Litres/day Details of Plant & Machinery used for treatment of Swimming pool water: Details of quality to be achieved for swimming pool water and parameters to be monitored: Budgetary allocation (Capital cost and O & M cost): Capital Cost : Rs 4.50 Lakh O & M Cost : Rs 1.62 Lakh/Year	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10 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:	14 Nos
	Size of recharge pits :	1.5M x 1.5M x 1.5M
	Budgetary allocation (Capital cost) :	Rs 8.00 Lakh
	Budgetary allocation (O & M cost) :	Rs 1.5 Lakh/Year
	Details of UGT tanks if any :	Residential & Amenity: Domestic UG tank Capacity: 625.00m3 Flushing tank capacity: 215.00m3 Fire UG tank Capacity: 375.00m3 Commercial: Domestic UG tank Capacity: 60.00m3 Flushing tank capacity: 60.00m3 Fire UG tank Capacity: 100.00m3
35.Storm water drainage	**Natural water drainage pattern:**	.
	Quantity of storm water:	1045.19m3 / Hr
	Size of SWD:	600mm
Sewage and Waste water	**Sewage generation in KLD:**	Residential & Amenity: 533.44 m3/day, Commercial: 78.66 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	A to H Building(STP-1)= 375 m3/day, I to L Building & Amenity-2(STP 2)=155 m3/day, Commercial Building(STP 3)- 80 m3/day,Amenity-1 (STP 4)= 10 m3/day,
	Location & area of the STP:	STP-1 = 167.48m2, STP-2 = 83.50 m2, STP 3= 48m2,STP 4= 22.40m2
	Budgetary allocation (Capital cost):	STP-1 (Building A to H)= Rs. 108.22 Lakh, STP-2 (Building I to L & Amenity-2)= Rs. 52.64 Lakh, STP-3 (Commercial Building)= 36.19 Lakh,STP -4 (Amenity-1)= Rs. 16.23 Lakh
	Budgetary allocation (O & M cost):	STP-1 (Building A to H)= Rs. 14.82 Lakh/Year, STP-2 (Building I to L & Amenity-2)= Rs. 7.65 Lakh/Year, STP 3(Commercial Building)= Rs. 7.34 Lakh/Year,STP-4 (Amenity-1)= Rs. 3.22 Lakh/Year ,

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	250 Kg/Day
	Disposal of the construction waste debris:	Use for Leveling
Waste generation in the operation Phase:	**Dry waste:**	Residential & Amenity-2= 569.48 Kg/Day, Commercial Building = 145.65 Kg/Day, Amenity-1= 14.55 Kg/Day.
	Wet waste:	Residential & Amenity-2= 1328.78 Kg/Day, Commercial Building= 339.85 Kg/Day, Amenity-1= 33.95 Kg/Day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Residential & Amenity-2= 106 Kg/Day (100% Dry), Commercial= 16Kg/Day (100% Dry), Amenity-1= 6.0 Kg/Day (100% Dry)
	Others if any:	-
Mode of Disposal of waste:	**Dry waste:**	SWACH
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as manure after treatment in OWC
	Others if any:	-
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	OWC 1(Residential & Amenity 2)= 72.00 m2, OWC 2(Commercial Building)= 36.80 m2, OWC 3(Amenity 1)= 12.00 m2
	Area for machinery:	Included in other Area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	OWC 1= Rs. 30.65 Lakh, OWC 2= Rs. 17.58 Lakh, OWC 3= Rs. 10.18 Lakh
	O & M cost:	OWC 1= Rs. 4.09 Lakh, OWC 2= Rs. 2.76 Lakh/Year, AOWC 3= Rs. 1.25 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- 200 KVA- 1 No. (Residential Building)	HSD- 42 Lit/Hr	S-1	7.5 M	To be provided	To be provided
2	DG Set- 180 KVA- 1 No. (Residential Building)	HSD- 42 Lit/Hr	S-2	7.0 M	To be provided	To be provided
3	DG Set 500 KVA- 2 Nos. (Commercial Building)	HSD- 107 Lit/Hr	S-3 & S-4	45 M	To be provided	To be provided
4	DG Set 250 KVA- 1 No. (Commercial Building)	HSD- 53 Lit/Hr	S-5	43 M	To be provided	To be provided
5	DG Set 40 KVA- 1 No. (Amenity 1)	HSD- 9 Lit/Hr	S-6	5.5 M	To be provided	To be provided
6	DG Set 20 KVA- 1 No. (Amenity 2)	HSD- 5Lit/Hr	S-7	4.0 M	To be provided	To be provided

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	258 Lit/Hr	258 Lit/Hr
41.Source of Fuel		Bharat Petroleum Corporation Limited/Hindustan Petroleum		
42.Mode of Transportation of fuel to site		By Roadway		

43.Green Belt Development	**Total RG area :**	3352.10 m2
	No of trees to be cut :	14 Nos.
	Number of trees to be planted :	438 Nos.
	List of proposed native trees :	438 Nos
	Timeline for completion of plantation :	Mid of Construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Tarminalia catappa	Badam	05	Tropical fruit tree & bird attracting tree
2	Michelia champaca	Champa	28	Evergreen timber plant, ornamental
3	Mimusopes elengi	Bakul	95	Evergreen tree, timber yielding and medicinal plant
4	Ficus benjamina	Weeping fig	07	Evergreen & bird attracting tree
5	Cassia fistula	Golden shower	54	Drought tolerant, ornamental & medicinal plant

6	Butea monosperma	Flame tree	12	Used in pesticide & dye preparation,
7	Plumeria alba	Frangipani	04	Drought tolerant, fragrant tree
8	Bauhinia blackiana	Kanchan	15	Evergreen medicinal plant
9	Roystonea regia	Royal palm	25	Nitrogen fixer, ornamental plant
10	Pongamia glabra	Karanj	64	Evergreen & bird attracting tree
11	Neolamarkia cadamba	Kadamba tree	14	Tropical fruit tree & bird attracting tree
12	Mangifera indica	Mango tree	13	Evergreen & bird attracting tree
13	Ficus religiosa	Pimpal	01	Evergreen & bird attracting tree
14	Ficus benghalensis	Wad	01	Shade Loving& bird attracting tree
15	Albezia lebbeck	Shirish	06	Evergreen & bird attracting tree
16	Azadiractha indica	Neem	12	Evergreen & bird attracting tree
17	Caryota mitis	Fishtail palm	67	Nitrogen fixer, ornamental plant
18	Cassia Grandis	Pink shower	15	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	-	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30KW
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	4184 KW (For Residential & Amenity 1 & 2 & Bungalow) + 1745KW (For Commercial Bldg)=5929 KW
	During Operation phase (Demand load):	5270 KVA
	Transformer:	22KV/630 KVA-3 Nos & 22KV/315 KVA-1 No. (For Residential, Amenity 1& 2 and Bungalow), 22KV/630 KVA- 2 Nos. (Commercial Building)
	DG set as Power back-up during operation phase:	200 KVA-1 No. & 180 KVA-1 No. (Residential Building), 40 KVA- 1No. (Amenity 1), 20 KVA -1 No(Amenity 2), 500 KVA- 2Nos. & 250 KVA-1No. (Commercial Building),
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

• Solar water heating systems will be done for bathrooms.

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

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

• Auto Timer switches will be provided for Street lights, Garden lights, Parking & staircase Lights & other common area Lights, for saving electrical energy.

• Water level controllers with timers will be used for Water pumps.

• To create awareness to end consumer or flat owner, for using energy efficient light fittings like CFL, T5 Lamps & LED lights
Detail Calculations & % Energy Saving: Is 18.85%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED Lamp & Fitting For Common Areas i.e. Bldg. Parking, Staircase, Passage & Terrace Floor.	73691.3
2	Up Lights - Light Fitting For Landscape Area.	1163
3	Bollard Lighter - Light Fitting For Landscape Area.	1022
4	Solar Street Light Fitting - Pole Light On Road Side.	10037.5
5	Street Light on the Bldg.	12045
6	Energy Saving by Solar Hot Water System.	951750
7	) Solar Power System (15% of Connected Load – 5929.45 x 15% = 889.42 KW = 889.42 x 24 Hrs = 21346.2 KWH)	6403860

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	--	Green belt will be provided
Water	-	STP will be installed & excess treated water used for flushing & gardening
Noise	-	Noise monitoring will be done in once a fortnight. Traffic management plan to be prepared. Acoustically enclosed DG set will be brought & installed.
Solid Waste	-	Wet waste will be treated in OWC. STP sludge will be used as manure after treatment in OWC. Dry waste will be given to SWACH.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 120 Lakh
	O & M cost:	Rs 3.99 Lakh/Year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust suppression, Air & Noise Monitoring	0.50 Lakh/Year
2	Water Environment	Tanker water for construction, Water monitoring	0.50 Lakh/Year

3	Land Environment	Site Sanitation- Mobile toilets	0.50 Lakh/Year
4	Socio-economic	Disinfection- pest control, First Aid facilities, Health check up, creches for children, food for children, personal protective Equipment	1.00 Lakh/Year

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP-1 (A to H Building)	Capacity- 375KLD	108.22 Lakh	14.82 Lakh/Year
2	STP-2 (I to L Building & Amenity-2)	Capacity- 155KLD	52.64 Lakh	7.65 Lakh/Year
3	STP-3 (Commercial Building)	Capacity- 80KLD	36.19 Lakh	7.34 Lakh/Year
4	STP-4 (Amenity-1)	Capacity- 10KLD	16.23 Lakh	3.22 Lakh/Year
5	RWH	-	8.00 Lakh	1.5 Lakh/Year
6	MSW-1	1550KPD (Residential & Amenity-2)	30.65 Lakh	4.09 Lakh/Year
7	MSW-2	375KPD (Commercial Building)	17.58 Lakh	2.76 Lakh/Year
8	MSW-3	100KPD (Amenity-1)	10.18 Lakh	1.25 Lakh/Year
9	Energy System	-	120.00 Lakh	3.99 Lakh/Year
10	Landscaping	-	37.32 Lakh	2.94 Lakh/Year
11	Safety Equipment	-	10.00 Lakh	2.00 Lakh/Year
12	Post EC Monitoring	-	-	2.50 Lakh/Year
13	Dry Waste Management	-	-	5.08 Lakh/Year

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	2 Nos- Lower Basement Parking=2406.56 m2, Upper Basement Parking= 5445.38 m2
	Number and area of podia:	1 No. Area= 12836.18 m2
	Total Parking area:	51826.60m2
	Area per car:	53.48 m2
	Area per car:	53.48 m2
	Number of 2-Wheelers as approved by competent authority:	2418 Nos
	Number of 4-Wheelers as approved by competent authority:	969 Nos
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	No
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Construction Project at S.No 21/3A,21/2B, 21/3B/4A/1/2/1,21/3B/4A/1/3,21/4B/1,21/4B/2, 21/4B/3, 21/4B/4,21/4B/2,21/4C, 21/4D/5A, 21/5B, 22/2, 39/3,Near Bank Of India, DangeChowk, by M/s Shree Sonigara Realcon.

PP submitted their application for expansion of Environmental clearance for total plot area of 34,250.00 Sq. Mtrs, FSI area of 63,871.31 Sq. Mtrs, Non FSI area of 76366.08 Sq.m and total BUA of 1,40,237.39Sq. Mtrs. PP proposes to construct total 25 residential, 2 commercial buildings and 5 Club houses.

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 Socio -economic infrastructure within vicinity land specially existing primary school, market hospital etc.
2) PP to submit under taking for Non Violation.
3) PP to submit Indemnity Bond.
4) PP to submit undertaking stating MAHADA building will be part of society.
5) PP to submit details of storm water drain with last chamber within the property and municipal chamber along with invert level.
6) PP to submit cross sections of plot boundary showing the storm water drain, space left between compound wall, tree plantation line, and internal road.
7) PP to submit revised solid waste management plan considering its E-waste generation and disposal.
8) PP to submit revised EMP with cost considering ENV Parameters.
9) PP to submit STP drawings, its cross section on design basis and calculations.
10) PP to submit specific NOC from respective authority to drain nalla crossing through land and also submit revised RG drive.
11) PP to submit detail drawing of internal storm water drain showing details and size of drain etc.
12) PP to submit Indemnity Bond for project land.
13) PP to submit CFO NOC, Drainage NOC Water NOC, Tree Authority NOC.
14) PP to submit revise RG plan for nalla and details of existing trees.
15) PP to submit sewer plan
16) PP to submit energy calculations along with terrace plan.
17) PP to submit PP to submit undertaking for implementation of CER.

FINAL RECOMMENDATION

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

Agenda 70th Meeting of SEAC-3 (Day-3)

SEAC Meeting number: 70 **Meeting Date** September 8, 2018

Subject: Environment Clearance for Integrated Special Township at Gat nos. 1 to 21, 23 to 41, 43 to 57, 58/A to D, 59 to 75, 76/2, 77 to 124, 126 to 129, 202, 400, 405, 407, 419, 443, 448, 460, 471, 483, 509, 511, 520, 523, 540/1 to 3, 541, 543, 551 to 553, 1059 to 1068, 1070 to 1077, 1081 to 1093, 1099 to 1111, 1125 to 1131, 1132/1 to 1132/3, 1136 to 1149, 1150 (part), 1151, 1152/ 1 & 2, 1153 to 1156, 1158, 1159, 1160/ 1 to 5, 1163 to 1167, village Kadamvakvasti, Tal. Haveli, Dist. Pune, State - Maharashtra

Is a Violation Case: No

1.Name of Project	Riverview City
2.Type of institution	Private
3.Name of Project Proponent	Mr. Satish Dattatraya Magar
4.Name of Consultant	NABET Accrediated Environnemental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Integrated Special Township
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Gat nos. 1 to 21, 23 to 41, 43 to 57, 58/A to D, 59 to75, 76/2, 77 to 124, 126 to 129, 202, 400, 405, 407, 419, 443, 448, 460, 471, 483, 509, 511, 520, 523, 540/1 to 3, 541, 543, 551 to 553, 1059 to 1068, 1070 to 1077, 1081 to 1093, 1099 to 1111, 1125 to 1131, 1132/1 to 1132/3, 1136 to 1149, 1150 (part), 1151, 1152/ 1 & 2, 1153 to 1156, 1158, 1159, 1160/ 1 to 5, 1163 to 1167, village Kadamvakvasti, Tal. Haveli, Dist. Pune, State - Maharashtra
9.Taluka	Haveli
10.Village	Kadamwakvasti
Correspondence Name:	Riverview City Constructions Limited
Room Number:	13
Floor:	NA
Building Name:	“Megaspace”
Road/Street Name:	Sholapur Bazaar Road, Off East Street
Locality:	Camp
City:	Pune
11.Area of the project	Grampanchayat Kadamwakvasti, Pune, Sanctioning Authority: PMRDA
12.IOD/IOA/Concession/Plan Approval Number	(i) Notification for Development of Townships, No. TPS 1804/Pune R. P. DCR/UD-13 dated 16.11.2005 (ii) Notification for Locational Clearance, No. TPS- 1813/392/12/CR-572/13/UD-13 dated 20.10.2015 (iii) Corrigendum in Notification for Locational Clearance, No. TPS-1813/392/12/CR-572/13/UD-13 dated 01.06.2016 (iv) Notification for Locational Clearance, No. TPS-1816/03/CR.29/17/UD-13 dated 30.12.2016
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 5793958
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	21,03,951.00 m2
16.Deductions	1,57,000 m2
17.Net Plot area	19,46,951 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 38,98,837
	b) Non FSI area (sq. m.): 1895121
	c) Total BUA area (sq. m.): 5793958

18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** As per ITP EC to be achieved before sanctioning master plan.
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	10,26,840
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.81 %
21.Estimated cost of the project	59410600000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	RVR1 - Type 3, Number of Building - 5	P+22	67.80
2	RVR1 - Type 4, Number of Building - 2	P+P+STILT+22	74.40
3	RVR1 - Type 5, Number of Building - 2	P+P+STILT+30	97.60
4	RVR2 - Type 3, Number of Building - 2	P+22	67.80
5	RVR2 - Type 4, Number of Building - 2	P+30	91.00
6	RVR3 - Type 5, Number of Building - 2	P+P+STILT+30	97.60
7	RVR3 - Type 4, Number of Building - 2	P+P+STILT+22	74.40
8	RVR3 - Type 3, Number of Building - 3	P+P+STILT+22	74.40
9	RVR4 - Type 3, Number of Building - 3	P+P+STILT+31	99.80
10	RVR5 - Type 1, Number of Building - 5	P+14	44.05
11	RVR6 - Type 1, Number of Building - 3	P+9	26.45
12	RVR7 - Type 1, Number of Building - 5	P+14	44.05
13	RVR8 - Type 3, Number of Building - 10	P+P+STILT+31	99.80
14	RVR8 - Type 4, Number of Building - 2	P+P+STILT+31	99.80
15	RVR8 - Type 5, Number of Building - 2	P+P+STILT+31	99.80
16	RVR9 - Type 1, Number of Building - 4	P+11	32.30
17	RVR10, Bunglows	70 Bunglows	12.00
18	RVR11, Bunglows	65 Bunglows	12.00
19	RVR12 - Type 2, Number of Building - 4	P+31	93.90
20	RVR13 - Type 3, Number of Building - 4	P+P+STILT+31	99.80
21	RVR13 - Type 3, Number of Building - 1	P+P+STILT+31	99.80

22	RVR13 - Type 4, Number of Building - 5	P+P+STILT+31	99.80
23	RVR14 - Type 3, Number of Building - 9	P+P+STILT+31	99.80
24	RVR15 - Type 5, Number of Building - 2	P+31	93.90
25	RVR16 - Type 3, Number of Building - 3	P+P+STILT+31	99.80
26	RVR17 - Type 3, Number of Building - 9	P+P+STILT+31	99.80
27	RVR17 - Type 5, Number of Building - 4	P+P+STILT+31	99.80
28	RVR17 - Type 4, Number of Building - 3	P+P+STILT+31	99.80
29	RVR18 - Type 4, Number of Building - 8	P+31	93.90
30	RVR19 - Type 5, Number of Building - 7	P+31	93.90
31	RVR20 - Type 3, Number of Building - 5	P+P+STILT+31	99.80
32	RVR20 - Type 4, Number of Building - 3	P+P+STILT+31	99.80
33	RVR20 - Type 5, Number of Building - 2	P+P+STILT+31	99.80
34	RVR21 - Type 3, Number of Building - 3	P+P+STILT+31	99.80
35	RVR21 - Type 3, Number of Building - 1	P+P+STILT+31	99.80
36	RVR21 - Type 4, Number of Building - 4	P+P+STILT+31	99.80
37	RVR22 - Type 5, Number of Building - 4	P+P+STILT+31	99.80
38	RVR22 - Type 4, Number of Building - 3	P+P+STILT+31	99.80
39	RVR23 - Type 4, Number of Building - 5	P+P+STILT+31	99.80
40	RVR23 - Type 5, Number of Building - 3	P+P+STILT+31	99.80
41	RVR24 - Type 3, Number of Building - 6	P+P+STILT+31	99.80
42	RVR24 - Type 4, Number of Building - 2	P+P+STILT+31	99.80
43	RVR25 - Type 1, Number of Building - 6	P+14	44.05
44	RVA2 - Primary School, Number of Building - 1	G+3	14.85
45	RVA3 - Assembly Hall, Number of Building - 1	G	5
46	RVA4 - Primary & Secondary School, Number of Building - 1	G+3	14.85
47	RVA5 - Primary & Secondary School, Number of Building - 1	G+3	14.85

48	RVC1 - Shopping Center, Number of Building - 1	G+2	12.90
49	RVC2 - IT Park, Number of Building - 3	P+P+9	40.80
50	RVC3 - Shopping Center, Number of Building - 1	P+5	22.20
51	RVC4 - Shopping Center, Number of Building - 1	P+5	22.20
52	RVC5 - Shopping Center, Number of Building - 1	P+7	29.40
53	RVC6 - Shopping Center, Number of Building - 2	P+7	29.40
54	RVC7 - Office Complex, Number of Building - 2	P+P+9	40.80
55	RVC8 - Office Complex, Number of Building - 3	P+P+9	40.80
56	RVC9 - Commercial Complex, Number of Building - 2	P+8	33
57	RVC9 - Commercial Complex, Number of Building - 1	P+P+8	37.20
58	RVC9 - Commercial Complex, Number of Building - 1	P+P+8	37.20
59	RVC9 - Commercial Complex, Number of Building - 1	P+P+12	51.60
60	RVA1 - Hospital, Number of Building - 1	LG +UG +5	22.00

23.Number of tenants and shops	160 buildings & 135 bunglows with 36347 tenements, One 100 beds hospitals, 3 Schools, 19 Commercial Buildings and Other Public Utilities such as Public Parking 3 Nos., Biogas plant, EHV sub station, Police station, Solid waste management plant, Bus station, HV sub station 4 Nos., STP 4 Nos, Fire brigade station, WTP, Burial ground & Cemetry, Cremation ground
24.Number of expected residents / users	Expected Residential users: 181735, Expected Non-residential users: 72,685, Expected Total Population: 254435
25.Tenant density per hectare	1212 per hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m. As this is Integrated Township Project, Fire Station shall be provided within premises.
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	Small huts and homes of villagers and some temporary structures
30.Details of the demolition with disposal (If applicable)	Small huts and homes of villagers and some temporary structures shall be demolished

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Irrigation Department - Khadakwasla R B Canal
	Fresh water (CMD):	17713 m3/day
	Recycled water - Flushing (CMD):	9901 m3/day
	Recycled water - Gardening (CMD):	2728 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	41160 m3/day
	Fire fighting - Underground water tank(CMD):	8350 m3
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	152 m3/day
Wet season:	**Source of water**	Irrigation Department - Khadakwasla R B Canal
	Fresh water (CMD):	17713 m3/day
	Recycled water - Flushing (CMD):	9901 m3/day
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	38004 m3/day
	Fire fighting - Underground water tank(CMD):	8350 m3
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	3317 m3/day
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	27614	27614	Not applicable	2761	2761	Not applicable	24853	24853

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 15 meter
	Size and no of RWH tank(s) and Quantity:	Some of the Existing Dug wells will be used as Rain Water Storage.
	Location of the RWH tank(s):	Seasonal Stream will be used for Rain water storage with Bund walls.
	Quantity of recharge pits:	100
	Size of recharge pits :	2 m X 2 m X 2 m
	Budgetary allocation (Capital cost) :	105 lacs
	Budgetary allocation (O & M cost) :	10 lacs
	Details of UGT tanks if any :	Domestic Water tank (1.5 DAY CAP): 26500 m3, Flushing Water tank M3 (1 DAY CAP): 9816 m3, Fire Fighting Water Tank: 8350 m3
35.Storm water drainage	**Natural water drainage pattern:**	by open drain channels/ pipelines
	Quantity of storm water:	Peak runoff-1823 cum/min
	Size of SWD:	300-600 mm wide
Sewage and Waste water	**Sewage generation in KLD:**	24835
	STP technology:	MBR
	Capacity of STP (CMD):	Number of STP - 4, Capacity of STP - 26110 m3/day
	Location & area of the STP:	Sewage Treatment plants are located at 4 different locations considering the existing contour levels. Total Area of STP's - 21686 sq. m
	Budgetary allocation (Capital cost):	8130 Lacs
	Budgetary allocation (O & M cost):	1440 Lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	525 kg/day
	Disposal of the construction waste debris:	Non structural applications such as Kerb Stones, drain covers, paving blocks in pedestrian area
Waste generation in the operation Phase:	**Dry waste:**	37169 kg/day
	Wet waste:	62662 kg/day
	Hazardous waste:	As per Generation (Handed over to authorized collection and reprocessing agency)
	Biomedical waste (If applicable):	29 kg/day
	STP Sludge (Dry sludge):	2459 kg/day
	Others if any:	E-Waste: As per generation (Handed over to authorized agency)

Mode of Disposal of waste:	**Dry waste:**	Handed over to Authorized Recycling Agency
	Wet waste:	Biogas plant & Vermicompost
	Hazardous waste:	Handed over to authorized agency
	Biomedical waste (If applicable):	Handed over to authorized agency
	STP Sludge (Dry sludge):	Used as soil richner after drying for landscaping
	Others if any:	E-Waste will be handed over to authorized agency
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	178.37 m2
	Area for machinery:	Total area for SWM - 6020 m2, Area for machinary - 4533.67 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	250 lacs
	O & M cost:	10.2 lacs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	5.5 - 9.0	7 - 8	7-8
2	COD	mg/l	700-800	<250	<50
3	BOD	mg/l	250-300	<100	<20
4	TSS	mg/l	100-200	<100	<50
5	Oil & Grease	mg/l	50-70	20	<10

Amount of effluent generation (CMD):	34.20 m3/day
Capacity of the ETP:	As per requirement
Amount of treated effluent recycled :	30 m3/day
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	The incoming Sewage will be passed through bar screen chamber for screening. Screening is necessary to remove the coarse/fine particles from the Sewage. So that these particles do not clog the pump. The Screened Sewage is then transferred to the equalization tank where any hydraulic as well as organic variations will be dampened. Aeration will be provided to Equalized sewage for agitation & enhance oxygen content. Partially aerated sewage will be further transfer to settling tank. Excess Suspe
Disposal of the ETP sludge	Sent to authorized bio-medical waste handling agency

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	DG oil	Schedule IV, Item No. 20	litres	Not applicable	450 L/d	450 L/d	Used Oil will be handed over to authorized collection agency for disposal
2	Used Lead Acid Batteries	Schedule IV, Item No. 17	Number	Not applicable	As per generation	As per generation	Sold to authorized agency

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 - 126 Number	Diesel - 450 L/d	126	6	0.15	35 degree

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Not applicable	450 Liters	450 Liters
41.Source of Fuel		local supplier		
42.Mode of Transportation of fuel to site		local supplier		

43.Green Belt Development	**Total RG area :**	RG area on Ground-420790 m2, RG area on Podium-9985 m2, Total RG area- 430775.2 m2
	No of trees to be cut :	260
	Number of trees to be planted :	32525
	List of proposed native trees :	31955
	Timeline for completion of plantation :	NA

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	Acacia nilotica	Babul	104	It is larval host for butterfly common grass yellow.
2	Acacia suma	Kadar	104	The tree is primarily grown for its durable wood, gum edible, and medicinal properties.
3	Alstonia scholaris	Saptaparni	104	Attracts bees during flowering. Being tall serves as nesting.
4	Amoora rohituka	Pithraj	104	Evergreen Tree, used as traditional medicine for cancer, tumor, liver and spleen disease.
5	Annona reticulata	Custard apple-Sitaphal	104	Annona reticulata is a small deciduous or semi-evergreen tree, best known for its fruit known as custard apple.
6	Anoegissus acuminata	Dhawada	104	Attracts insects while flowering. Planted for restoration.
7	Achras Sapota	Chickoo	104	It is tropical evergreen tree.
8	Bauhunia purpurea	Rakta Kanchan	104	It is a small to medium-sized deciduous fast-growing shrub or tree known as Butterfly tree.
9	Bombax ceiba	Silk cotton tree	104	Food plant for humans, birds.
10	Butea monosperma	Palas	104	Used in afforestation of saline and waterlogged regions.
11	Careya arborea	Kumbha	104	Larval host to butterfly grey count Fruits favoured by wild animals

12	Cassia fistula	Bahawa	104	Larval host for butterflies like common emigrant, etc
13	Cocos nucifera	Nariyal	104	It is a large palm, growing to 30 m tall, with pinnate leaves 4-6 m long.
14	Cordia dichotoma	Bhokar	104	Attracts fruit eating birds. Hardy, sturdy species. Drought tolerant.
15	Crateva adansonii	Varun	104	It is larval host for butterflies psyche, striped albatross.
16	Dalbergia lanceolaria	Phashi	154	Attracts insects while flowering. Nitrogen fixing tree, suitable for restoration.
17	Dalbergia latifoila	Shisam	104	Larval host for butterflies chestnut streaked sailer, etc.
18	Diospyros peregrina	Tembhurni	104	Fruits are readily eaten by birds.
19	Erythrina stricta	Pangara	104	Attracts lot of birds during flowering.
20	Ficus benghalensis	Banyan	50	Larval host for butterflies like common Indian crow, Fruiting trees attract fruit eating birds
21	Ficus elastica	Rubber fig	50	It is popular ornamental tree grown in the world, known as rubber tree
22	Garcinia indica	Kokum	104	Evergreen tree good for creating perennial greenery.
23	Gmelina arborea	Gambhari	104	Good for plantation for restoration.
24	Haldina cordifolia	Hedu	104	It is a deciduous tree with a large crown; generaly growing from 18 - 30 metres tall, specimens up to 45 metres have been recorded.
25	Holarrhena pubescens	Kuda	104	It is larval lost for butterfly common Indian crow.
26	Lagerstroemia microcarpa	Nana	104	Larval host for butterflies large oakblue. Attracts bees and butterflies.
27	Macaranga peltata	Chandada	104	Small dioecious tree; Flowers greenish yellow, male in dense panicles, concealed in large bracts, female in smaller panicles, seeds black.
28	Mangifera indica	Mango	104	Fruits are eaten by wild animals. Larval host for butterfly common baron.
29	Manilkara hexandra	Khirni	104	Evergreen tree, grows up to 20 m height.
30	Mesua ferrea	Nagchapha	104	Important species in cores or interior of forest
31	Mimusops elengi	Bakul	104	Fruits are eaten by animals.
32	Psidium guajava	Guaua	104	Evergreen tree good for creating perennial greenery.
33	Psidium guajava	Guaua	104	Evergreen tree good for creating perennial greenery.

34	Pterocarpus marsupium	Bija	104	It is a medium to large, deciduous tree that can grow up to 30 metres tall.
35	Pterospermum acerifolium	Muchkund	104	It is most likely to grow naturally along forested stream banks.
36	Putranjiva roxburghii	Jivanputra	154	Fast growing, evergreen tree, growing up to 12 m in height, having medicinal properties.
37	Sapindus laurifolius	Ritha	104	It is larval host for butterfly indigo flash.
38	Saraca asoca	Sita ashok	104	It is larval host for butterfly like common cerulean
39	Polyalthia longifolio	Ashoka tree	104	The Ashoka tree is native to India, is a lofty evergreen tree, commonly planted due to its effectiveness in controlling noise pollution.
40	Semecarpus anacardium	Bibba	104	It is deciduous tree, 10-15 m wide tall, Fruits attracts birds.
41	Spondias pinnata	Ambada	104	It is deciduous tree, 10-15 m wide tall, Fruits attracts birds.
42	Tamarindus indica	Chinch	104	Fruits are favored by wild animals. Good for shade, reduces temperature.
43	Terminalia catappa	Indian almond	104	Indian almonds are spreading trees with large, leathery, oval leaves which turn red before they fall. The tree has a distinctive shape.
44	Thespesia populnea	Bhend	104	It is larval host for butterfly chestnut streaked sailer.
45	Trema orientalis	Kharal	104	Favored by birds while fruiting. A sturdy, fast growing plant
46	Wrightia tinctoria	Kala kuda	104	Fast growing, sturdy plant
47	Ziziphus mauritiana	Bor	104	It is larval host for butterflies indigo flash. Slate flash and tussar silk moth.
48	Bambusa arundinacea	Kalak	633	It is larval host for butterflies like madrasace, dark palm dart, etc.
49	Dendrocalamus strictus	Meskati	633	Hardy and sturdy plants, drought resistant, fast growing.
50	Ficus hispida	Kal umbar	633	Fruiting trees attract fruit eating birds. Larval host for butterflies like brown king crow, etc.
51	Ficus racemosa	Umbar	633	Fruiting trees attract fruit eating birds. Larval host for butterflies like silver streak blue,etc.
52	Neolamarckia cadamba	Kadamb	633	Broad leaved trees attract many birds and insects while flowering and fruiting.
53	Pongamia pinnata	Karanj	633	It is larval host for butterflies chestnut streaked sailer, dark cerulean,etc.
54	Salix tetrasperma	Walunj	633	It is larval host for butterfly common leopard.

55	Syzygium cumini	Jambhul	633	Attracts many birds while fruiting. Good for plantation in restoration.
56	Terminalia cuneata	Arjun	633	Evergreen trees, to 30 m, bole often buttressed; bark 6-8 mm thick, surface pinkish-grey, smooth, flaking off in thin layers; blaze pink; exudation red, gummy; branchlets drooping.
57	Bauhunia racemosa	Apple	181	It is larval host for butterfly common emigrant.
58	Citrus limon	Lemon tree	181	Nontoxic insecticide treatment
59	Mallotus philippensis	Kunku	181	It is a plant in the spurge family. It is known as the kamala tree or red kamala or kumkum tree, due to the fruit covering, which produces a red dye.
60	Murraya koenigii	Kadhipatta	181	It is larval host for butterflies like lime
61	Murraya paniculata	Orange Jasmine / Kamini	181	Blooms most of the year, Flower attract Honeybees.
62	Nyctanthes arbor tristis	Parijatak	181	Blooms most of the year, Flower attract Honeybees.
63	Vitex negundo	Nirgundi	181	Attracts a lot of butterflies and birds. Forms a good screen or wind break
64	Calophyllum inophyllum	Undi	181	Flower attract Honeybees
65	Ficus microcarpa	Nandruk	181	It is larval host for butterflies. Attracts birds while fruiting.
66	Ficus religiosa	Pimpal	181	It is larval host for butterflies. Attracts birds while fruiting.
67	Heterophragma quadriloculare	Waras	181	Profusely fruiting trees attract a lot of fruit eating birds.
68	Madhuca latifolia	Indian Butter Tree	181	It is a fast-growing tree that grows to approximately 20 meters in height, possesses evergreen or semi-evergreen foliage.
69	Schleichera oleosa	Kusum tree	181	It is larval host for butterflies malayan, western centaur oakblue, common hedge
70	Terminalia cuneata	Arjun	181	Evergreen trees, grows up to 30 m height, bole often buttressed; bark 6-8 mm thick, surface pinkish-grey, smooth, flaking off in thin layers; blaze pink; exudation red, gummy; branchlets drooping. Leaves simple, opposite to alternate.
71	Albizia procera	Kinhai	3249	It is larval host for butterflies- common grass yellow , three spot grass yellow
72	Madhuca longifolia	Mahua	3252	Flowering attracts many insects.
73	Melia dubia	Limbara	3249	Large deciduous and fast growing tree with wide spreading branches on a stout, straight, tall bole.

74	Michelia champaca	Champa	3249	Trees, buttressed, up to 30 m tall. Trunk & Bark. Bark grey, lenticellate; blaze cream with orange speckles.
75	Mitragyna parvifolia	Kalam	3249	It is larval host for butterfly commander.
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	Bahuniatomentosa (Yellow orchid tree)	1.2 m	718.9
2	Cestrum nocturnum (Ratrani)	0.9 m	718.9
3	Vitex negundo (Nirgundi)	0.9 m	718.9
4	Hamelia patens (Muna)	1.2 m	718.9
5	Dendrocalamus strictus (Bamboo)	1.8 m	718.9
6	Nyctanthes arbortristis (Prajakta)	1.2 m	718.9
7	Gardenia gummifera (Dikemali)	1.2 m	718.9
8	Wrightia tinctoria (Kalakuda)	1.2 m	718.9
9	Mallotus philippensis (Kamala tree)	1.2 m	718.9
10	Howea forsteriana (Paradise palm)	1.2 m	718.9
11	Holarrhena pubscens (Kuda)	1.2 m	718.9
12	Murraya exotica/paniculata (Kamini)	1.2 m	718.9
13	Glochidion ellipticum (Bhoma)	1.2 m	718.9
14	Nerium indicum (Kaner)	1.2 m	718.9
15	Plumeria acutifolia/ alba (Frangipani)	2.5 m	718.9
16	Caryataurens (Fishtail)	2.5 m	718.9
17	Phoenix sylvestris (Khajur)	2.5 m	718.9
18	Michelia alba (White champa)	2.5 m	718.9
19	Woodfordia fruticosa (Dhayati)	0.9 m	718.9
20	Carissa congesta (Karvanda)	0.9 m	718.9
21	Leea indica (Dinda)	0.6 m	-
22	Clerodendron inerme (Koynel)	0.6 m	-
23	Rhapis humilis	0.6 m	-
24	Ixora coccinea (Rugmini)	0.45 m	-
25	Dracaena reflexa (Song of India)	0.45 m	-

26	Eranthemum nigrum	0.45 m	-
27	Barleria cristata	0.45 m	-
28	Stachytarpheta indica	0.45 m	-
29	Pseuderanthemumreti culatum	0.45 m	-

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	5 MVA
	DG set as Power back-up during construction phase	5 MVA
	During Operation phase (Connected load):	3,42,916 kW
	During Operation phase (Demand load):	1,58,913 kW
	Transformer:	200 kVA - 3 Number, 315 kVA - 1 Number, 500 kVA - 1 Number, 630 kVA - 166 Number, 1000 kVA - 37 Number, 1250 kVA - 14 Number
	DG set as Power back-up during operation phase:	126 Nos. (Ranging from 15 kVA to 1000 kVA)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Total Energy Requirement - 3,81,46,320 kWH,
Maximum savings due to Use of LED - 3,35,472 kWH,
Maximum saving due to Solar Water Heating system - 40,97,190 kWH,
Maximum saving due to conversion of biogas to electricity - 78,948 kWH,
Total Energy Saving - 45,11,610 kWH,
Thus, Percentage Saving : 11.82%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Maximum savings due to Use of LED	335472 kWH
2	Maximum savings due to Solar Water Heating System	4097190 kWH
3	Maximum savings due to conversion of biogas to electricity	78948 kWH

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not Available	Total Capacity of STP - 26110 m3/day
Biodegradable Waste	Not Available	Biogas plant capacity - 5 T; Vermicompost - 60 beds of Size - 15 × 5 F
Dust	Not Available	STP Treated Water - 437 m3/day

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	812.60 Cr
	O & M cost:	24 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	STP Cost	Civil and Equipment Cost along with Operation and Maintenance Cost	115
2	Mobile Toilets	100 Number of Mobile Toilets on rent monthly basis	84

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	8130	1440
2	Rain water harvesting	Ground Water Recharge	105	10
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	83.82
4	Solar System	For Hot Water	3551	2.25
5	Gardening (Including Transplantation)	Green Belt Development	6311.85	420.79
6	Solid Waste	Solid Waste Management	250	10.2
7	Water Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	1260	331
8	Disaster Management	contegency	5106	3766

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Diesel	inflammable	Not applicable	As required	450 L/day	13500 L/month	Local Supplier	Local Supplier

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Multiple
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	Multiple, Approximately about 8,94,402 m2
	Total Parking area:	614446.61 m2
	Area per car:	12.5 m2 excluding driveway, 25 m2 including driveway
	Area per car:	12.5 m2 excluding driveway, 25 m2 including driveway
	Number of 2-Wheelers as approved by competent authority:	104141
	Number of 4-Wheelers as approved by competent authority:	26661
	Public Transport:	Local Municipal bus services on main road (NH65), Local train service from Loni railway station to city
	Width of all Internal roads (m):	9m, 12m, 15m, 18 m, 24 m, 30 m (varies)
	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 Integrated Special Township at Gat nos. 1 to 21, 23 to 41, 43 to 57, 58/A to D, 59 to 75, 76/2, 77 to 124, 126 to 129, 202, 400, 405, 407, 419, 443, 448, 460, 471, 483, 509, 511, 520, 523, 540/1 to 3, 541,543, 551 to 553, 1059 to 1068, 1070 to 1077, 1081 to 1093, 1099 to 1111, 1125 to 1131, 1132/1 to 1132/3, 1136 to 1149,1150 (part), 1151, 1152/ 1 & 2, 1153 to 1156, 1158, 1159, 1160/ 1 to 5, 1163 to 1167, village Kadamvakvasti, Tal. Haveli,Dist. Pune, State - Maharashtra Riverview City by Mr. Satish Dattatraya Magar.

PP submitted their application for expansion of Environmental clearance for total plot area of 21,03,951.00 Sq. Mtrs, FSI area of 38,98,837 Sq. Mtrs, Non FSI area of 18,95,121 Sq.m and total BUA of 57,93,958 Sq. Mtrs. PP proposes to construct total 82 buildings and 135 Bunglows.

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 (b) B1.

• Online Application for ToR to SEAC, Maharashtra on 30/4/2016 & revised on 02/08/2016

• ToR was approved under category **8 (b) B1** of EIA Notification 2006 in 53rd meeting of SEAC-III, Maharashtra held on 08/09/2016

• As per amendment in the EIA Notification by MoEF & CC dated 9th December 2016, our proposal fell into **8 (b) A Category** as our total construction BUA is more than 3,00,000 sq. m

• Hence we had approached EAC-2 (Infra) which approved the ToR vide letter No. 21-107/2017-IA.III dated on 02.06.2017.

• The project EIA was appraised by EAC-2 (Infra) in its 22nd meeting held on 12.9.2017 & followed by 24th meeting held on 30.10.2017

• Re-considered our proposal in EAC-2 (infra) meeting held on 29th May 2018.

• Meanwhile NGT order, GoM issued the circular dated 29th January 2018 that pre-9th December 2016 amendment, Notification 2006 can be implemented.

• Therefore, as of date our projects falls under schedule **8(b) B1** of EIA Notification. Hence we have withdrawn our application from EAC-2 (Infra) and now approach SEAC-III for environmental clearance.

Project Details:

Project details	Integrated Special Township
Total Plot Area	21,03,951.00 m^2
Deductions	1,57,000 m^2
Net Plot	19,46,951 m^2
Total Proposed Built-up area As per FSI	38,98,837 m^2
Total Construction Built- up Area	57,93,958 m^2
Project Proposal	160 buildings and 135 bungalows with 36,347 tenements, One 100 beds hospital, 3 schools, 19 Commercial buildings, Police station, Fire Brigade and other utilities

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

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

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

DECISION OF SEAC

After detail discussion of the case, committee has shared the observations with the PP in respect to land environment and asked to submit information to the committee for further discussion and consideration of SEAC and asked the PP for detail presentation on Land Environment and Air Pollution chapter in the next meeting and also to make detail presentation regarding EIA studies/TOR on Land Environment and Air Pollution chapter. The committee shall perform the site visit as an when necessary. Also committee shall try to accommodate the project in subsequent meetings depending upon the availability of the time slots.

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