103 SEAC-3 meeting day 01

SEAC Meeting number: 103 **Meeting Date** February 11, 2020

Subject: Environment Clearance for Residential Construction Project

Is a Violation Case: No

1.Name of Project	Residential Construction Project
2.Type of institution	Private
3.Name of Project Proponent	M/s Kunal Realty
4.Name of Consultant	Not yet appointed
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	S. No. 164/6, CTS No. 3506 (P), Bhoir Nagar, Chinchwad
9.Taluka	Haveli
10.Village	NA
Correspondence Name:	Mr. Hemendra Shah
Room Number:	NA
Floor:	Ground Floor
Building Name:	Kunal House
Road/Street Name:	Off Bhandarkar Road
Locality:	Near Kamla Nehru Park
City:	Pune
11.Whether in Corporation / Municipal / other area	PCMC
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)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	21620.22 sq. m.
16.Deductions	4813.64 sq.m
17.Net Plot area	16806.58 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 36690.63 sq.m
	b) Non FSI area (sq. m.): 36539.84 sq.m
	c) Total BUA area (sq. m.): 73230.47
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	3109.5
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.5 %
21.Estimated cost of the project	1500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1 - 1 No.	P + 16 Floors	46.40
2	Building 2 - 1 No.	2P + 16 Floors	46.40
3	Building 3 - 1 No.	2P + 16 Floors	46.40
4	Building 4 - 1 No.	2P + 16 Floors	46.40
5	Club House	G + 1	7.70

23.Number of tenants and shops	No. of Tenements - 526 Nos
24.Number of expected residents / users	No. of expected Residents - 2630
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)	31 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	Temporary sheds
30.Details of the demolition with disposal (If applicable)	Temporary sheds

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	244 KLD
	Recycled water - Flushing (CMD):	123 KLD
	Recycled water - Gardening (CMD):	24 KLD
	Swimming pool make up (Cum):	4 KL
	Total Water Requirement (CMD) :	395 KLD
	Fire fighting - Underground water tank(CMD):	618 KLD
	Fire fighting - Overhead water tank(CMD):	10 KLD/Building
	Excess treated water	196 KLD
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	244 KLD
	Recycled water - Flushing (CMD):	123 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	367 KLD
	Fire fighting - Underground water tank(CMD):	618 KLD
	Fire fighting - Overhead water tank(CMD):	10 KLD/Building
	Excess treated water	220 KLD
Details of Swimming pool (If any)	MAIN POOL SIZE : 13.5 M X 5 M BABY POOL SIZE : 10 sq mtrs X 0.6 M DEEP MAIN POOL DEPTH: 1.2 M BABY POOL VOLUME: 6,000 Litres MAIN POOL VOLUME: 81,000 Litres BAL. TANK VOLUME: 9,000 Lit TOTAL SYSTEM VOLUME: 96,000 Lit Free chlorine for Private Pools: 1 to 1.5 ppm (mg/l)* Super-chlorination at least 3.0/5.0 ppm (mg/1) Shock Treatment (heavy algae) at least 10 ppm (mg/1) pH 7.2 - 7.6 Total Alkalinity 80 to 120 ppm (mg/1) Calcium Hardness 200 ppm Minimum Total Dissolved Solids less than 1500 ppm (mg/1) for pools Cyanuric Acid (Stabiliser) less than 100 ppm (mg/1)	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Fresh water requirement	NA	244 KLD	244 KLD	NA	24 KLD	24 KLD	NA	220 KLD	220 KLD
Gardening	NA	24 KLD	24 KLD	0 KLD	24 KLD	24 KLD	NA	NA	NA

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon- 10 to 12 Mt. Mt. below ground level. Post monsoon- 4 to 6 Mt. below ground level.
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6 Nos.
	Size of recharge pits :	2 m x 1m x 2 m
	Budgetary allocation (Capital cost) :	Rs. 6 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.5 Lakh/yr.
	Details of UGT tanks if any :	Domestic water Tank : 355KLD Flush water Tank : 135 KLD Fire Fighting Water : 618 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per Contour
	Quantity of storm water:	0.603 CUM/SEC
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	343 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. STP capacity - 375KLD
	Location & area of the STP:	As per Services Layout
	Budgetary allocation (Capital cost):	Rs. 93.5 Lakh
	Budgetary allocation (O & M cost):	Rs. 34 Lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 % of waste material
	Disposal of the construction waste debris:	Excavated earth material will be used for filling material for plinth area & top soil for landscaping.
Waste generation in the operation Phase:	**Dry waste:**	457 kg/day
	Wet waste:	748 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	27 Kg/day
	Others if any:	E Waste - 1310 Kg/Year
Mode of Disposal of waste:	**Dry waste:**	Through Authorized Vendor
	Wet waste:	Through Mechanical composting machine
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	used as manure
	Others if any:	E waste through authorized vendor
Area requirement:	**Location(s):**	As per service layout
	Area for the storage of waste & other material:	41 sq.m
	Area for machinery:	79 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 27.50 Lakh
	O & M cost:	Rs. 7.55 Lakh/yr.

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	6.5 - 8.0	6.5 - 8.0	---
2	COD	mg/lit.	< 350	< 30	Not to exceed 100 mg/lit
3	BOD	mg/lit.	< 300	< 10	Not to exceed 10 mg/lit
4	Suspended Solids	mg/lit.	< 200	< 10	Not to exceed 50 mg/lit
5	Oil & Grease	mg/lit.	< 10 - 50	< 1 - 5	---
6	Nitrogen	mg/lit.	< 40 - 50	< 5 - 10	---
7	Phospohorus	mg/lit.	< 5 - 7	< 5	---
8	Fecal Coli Form	mg/lit.	Present	Absent	---

Amount of effluent generation (CMD):	NA
Capacity of the ETP:	NA
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA

Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	NA	110 Lit/hr.	110 Lit/hr.
41.Source of Fuel		----		
42.Mode of Transportation of fuel to site		----		

43.Green Belt Development	**Total RG area :**	2151.43 sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	385
	List of proposed native trees :	As per below
	Timeline for completion of plantation :	1 yr. after 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	Acrus sapota	Chikku	27	Fruit bearing tree, attracts birds.
2	Murraya paniculata	Kunti	27	Blooms throughout the year, flowers with excellent fragrance
3	Saraca indica	Sita ashok	18	Evergreen tree with rounded crown, hardy tree
4	Lagerstromia flos - reginae	Lagerstromia	18	Medium size, grows in dry / arid climate.
5	Cordia	Cordia	16	Fragrant flowers
6	Psidium gujava	Peru	33	Fruit bearing tree, attracts birds.
7	Cassia fistula	Bahawa	15	Medium size deciduous tree Grows in less soil or murum. Full of yellow flowers during summer season.
8	Azadirachta indica	Neem	15	Medicinal properties, quick growing, good air purifier
9	Carica papaya	Pangara	15	Fruit bearing tree, nitrogen fixing tree

10	Nyctanthesarbor-tristis	Prajakta	15	Fragrant flowers
11	Butea monosperma	Palas	15	Used in forestation of saline & water logged regions
12	Bauhinia Purpurea	Kanchan	15	Grows in less soil,drought resistant
13	Grewia tiliaefolia	Dhaman	07	Deciduous, drought resistant
14	AcrusPhyllanthus emblica sapota	Amla	08	Medicinal properties
15	Albezzia lebbeck	Shirish	07	Quick growing,hardy, good soil binder, drought tolerant
16	Annona reticulata	Ramphal	26	Fruit bearing tree
17	Solanium	Vanvruksh	33	Fast growing climber with remarkable flowering performance.
18	Annona squamosa	Sitaphal	26	Fruit bearing tree
19	Citrus reticulata	Orange	25	Fruit bearing tree
20	Citrus limonia	Limbu	24	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)	140 KW
	DG set as Power back-up during construction phase	30 KVA
	During Operation phase (Connected load):	10227.4 KW
	During Operation phase (Demand load):	4913.2 KW
	Transformer:	630 KVA x 5 Nos.
	DG set as Power back-up during operation phase:	750 KVA x 1 No.
	Fuel used:	165 lit./hr
	Details of high tension line passing through the plot if any:	Yes, High tension line passing through the plot

48.Energy saving by non-conventional method:

Through solar hot water - 22812.50 KWh / Annum
Through Solar PV panels - 29565.00 KWh / Annum
Total Saving - 52377.5 KWh / Annum (3.4 %)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of LED Fittings.	180649 KWh/Anuum
2	User to be recommended to use BEE FIVE star certified appliance and Air conditioners.	61821.875 KWh/Anuum
3	Use of BEE Certified Motors	15768 KWh/Annum
4	Use of Group controls and Variable speed drives.	9608.625 KWh/Annum
5	Daylight based controls + LED light fitting to be consider instead of convectional fittings	49275 KWh/Annum
6	Use of EFF-1 motors for fans & pumps	10512 KWh/Annum
7	Use of CO sensors and VFD fans	4599 KWh/Annum
8	Total Saving	332234 KWh/Annum (21.4 %)

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water	NA	STP
Wet waste generation	NA	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 122 Lakhs
	O & M cost:	Rs. 1.8 Lakh/Yr.

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 measure	1.5
2	Site Safety	Providing of Nets & Barricades	1.0
3	Site Sanitation	To maintain hygienic condition	1.0
4	Disinfection & Health Checkup	Spreing of pesticides & health check up for Labor	1.5
5	Environmental Monitoring	Analysis of Air, Water & Noise	2.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	To treat waste water	93.5	34
2	Rain Water Harvesting	To use as domestic water	6.0	0.5
3	Solid Waste Management	Treatment on wet waste	27.50	7.55
4	Landscape	To maintain greenery	22.50	5.0

5	Energy saving	To save electrical energy	122.0	1.8
6	Swimming Pool	Project facility	25.0	1.80
7	Environment Management	For the maintenance of pollution control services	1.3	2.62

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	13248.8sq.m
	Area per car:	Covered car -30 sq.m, Open car - 25 sqm, Lower ground car park - 35 sqm
	Area per car:	Covered car -30 sq.m, Open car - 25 sqm, Lower ground car park - 35 sqm
	Number of 2-Wheelers as approved by competent authority:	1052
	Number of 4-Wheelers as approved by competent authority:	279
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	More than 10 Km

	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

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

1.	Proposal Number	SEIAA-STATEMENT-0000003437
2.	Name of Project	Residential Construction Project
3.	Project category	8a (B2)
4.	Type of Institution	Private
5.	Project Proponent	M/s. Kunal Realty
		Kunal House, Off Bhandarkar Road, Near Kamla Nehru Park, Pune.
		9595226267
		hds@kunalgroup.in
6.	Consultant	-----
7.	Applied for	Fresh EC application
8.	Details of previous EC	NA
9.	Location of the project	S. No. 164/6, CTS No. 3506 (P), Bhoir Nagar, Chinchwad, Haveli, Pune.
10.	Latitude and Longitude	Latitude 18°31'40.33"N Longitude 73°56'02.91"E
11.	Total Plot Area (m2)	21620.22 m^2
12.	Deductions (m2)	4813.64
13.	Net Plot area (m2)	16806.58
14.	Proposed FSI area (m2)	36690.63
15.	Proposed non-FSI area (m2)	36539.84
16.	Proposed TBUA (m2)	73230.47
17.	TBUA (m2) approved by Planning Authority till date	In Process
18.	Ground coverage (m2) & %	3109.5 sq.m (18.5 %)
19.	Total Project Cost (Rs.)	150 Cr.

21. Details of Building Configuration :

Previous EC / Existing Building			Proposed Configuration		
Building Name	Configuration	Height (m)	Building Name	Configuration	Height (m)
	--		Building 1	Pk + 16 F	46.40
	--		Building 2	2Pk + 16 F	46.40
	--		Building 3	2Pk + 16 F	46.40
	--		Building 4	2Pk + 16 F	46.40

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 102nd meeting of SEAC-3.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC Meeting number: 103 **Meeting Date** February 11, 2020

Subject: Environment Clearance for Expansion of Residential & Commercial Construction Project

Is a Violation Case: Yes

1.Name of Project	Residential cum Commercial Construction Project at S. No. 45, Baner
2.Type of institution	Private
3.Name of Project Proponent	Kunal Sancheti Associates
4.Name of Consultant	NA
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	EC not obtained. Construction done as per sanction
8.Location of the project	S.No. 45
9.Taluka	Haveli
10.Village	Baner
Correspondence Name:	Mr. Hemendra Shah
Room Number:	NA
Floor:	NA
Building Name:	Kunal House
Road/Street Name:	Off Bhandarkar Road
Locality:	Opp. Kamla Nehru Park
City:	Pune
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	IOD
	IOD/IOA/Concession/Plan Approval Number: IOD - CC 3012/18 dated 28.12.2018
	Approved Built-up Area: 65266.91
13.Note on the initiated work (If applicable)	Total constructed work - 38621.07 sq.m
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	19,721.61 sq.m
16.Deductions	7949.99 sq.m
17.Net Plot area	11771.62 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 27917.51 sq.m
	b) Non FSI area (sq. m.): 37349.40 sq.m
	c) Total BUA area (sq. m.): 65266.91
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 27917.51 sq.m
	Approved Non FSI area (sq. m.): 37349.40 sq.m
	Date of Approval: 28-12-2018
19.Total ground coverage (m2)	3418.73
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29.04 %
21.Estimated cost of the project	901400000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing - A	P + P + 10	29.90 m
2	Wing - B	P + P + P +10	29.90 m
3	Wing - C	P + P + P + 10	29.90 m
4	Wing - D	2B + GR + Mezz + 2P + 12	55.80 m

23.Number of tenants and shops	Residential - 169, Offices - 94., Showrooms - 1 Nos.
24.Number of expected residents / users	Residential - 845, Commercial - 2496
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)	24 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Constructed Area - 38621.07 sq.m
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	113.49 KLD
	Recycled water - Flushing (CMD):	112.91 KLD
	Recycled water - Gardening (CMD):	12 KLD
	Swimming pool make up (Cum):	4 KLD
	Total Water Requirement (CMD) :	242.4 KLD
	Fire fighting - Underground water tank(CMD):	225 KLD
	Fire fighting - Overhead water tank(CMD):	20 KLD
	Excess treated water	82.45 KLD
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	113.49 KLD
	Recycled water - Flushing (CMD):	112.91 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	4 KLD
	Total Water Requirement (CMD) :	230.4 KLD
	Fire fighting - Underground water tank(CMD):	225 KL
	Fire fighting - Overhead water tank(CMD):	20 KLD
	Excess treated water	94.45 KLD
Details of Swimming pool (If any)	Size - 15 m X 6 X 1.2 m Volume 108 cum	

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	76.5 KLD	37.44 KLD	113.94 KLD	7.61 Kld	3.74 KLD	11.35 KLD	68.45 KLD	33.70 KLD	102.2 KLD
Gardening	10 KLD	2 KLD	12 KLD	NA	NA	NA	NA	NA	NA

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15 - 20 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6
	Size of recharge pits :	2m x 2m x 1m
	Budgetary allocation (Capital cost) :	4.5 Lakh
	Budgetary allocation (O & M cost) :	0.5 Lakh/yr
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	As per contour (E -W)
	Quantity of storm water:	11.89 m3/min.
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	208
	STP technology:	For Proposed STP - MBBR , For Existing STP - Extended Aeration
	Capacity of STP (CMD):	2 No. of STP , Capacity - 110 KLD each
	Location & area of the STP:	As per Layout
	Budgetary allocation (Capital cost):	58 Lakh
	Budgetary allocation (O & M cost):	18 Lakh/yr. (9 + 9)
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 % waste material
	Disposal of the construction waste debris:	Excavated earth material will be used for filling material for plinth area & top soil for landscape
Waste generation in the operation Phase:	**Dry waste:**	585 Kg/day
	Wet waste:	428 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	13.2 Kg/day
	Others if any:	E waste - Residential - 422 kg/yr., Commercial - 2496 Kg/yr.

Mode of Disposal of waste:	**Dry waste:**	Through authorized vendor (SWACH)
	Wet waste:	Through mechanical composter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used As Manure
	Others if any:	E waste - Through authorized vendor
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	20 sq.m (10 sq.m for each)
	Area for machinery:	50 sq.m (25 sq.m for each)
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	22 Lakh
	O & M cost:	12 Lakh/yr.

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	7 - 8.5	6.5 -7.5	----
2	COD	mg/lit.	300 - 400	< 30	Not more than 100 mg/lit
3	BOD	mg/lit.	250 - 300	< 10	Not more than 50 mg/lit
4	SS	mg/lit.	350 -450	< 5	Not more than 10 mg/lit
5	Oil & Grease	mg/lit.	10	< 5	--
6	TDS	mg/lit.	---	< 1000	---
7	Total Nitrogen	mg/lit. as N	40 - 50	< 10	---
8	Ammonical Nitrogen	mg/lit.	--	< 1	---
9	Total Phosphate	mg/lit.	5 - 7	< 2	---
10	Faecal coliform	MPN/100 ml	10^6/100	N.D.	---

Amount of effluent generation (CMD):	NA
Capacity of the ETP:	NA
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	20.2 lit/hr	98.6 Lit./hr	118.8 lit/hr
41.Source of Fuel		NA		
42.Mode of Transportation of fuel to site		NA		

43.Green Belt Development	**Total RG area :**	1576.21 sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	182
	List of proposed native trees :	As per below list
	Timeline for completion of plantation :	1 yr.

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	Saptaparni	77	Drought tolerant species,To control soil erosion.
2	Annona squammosa	Sitaphal	1	fruit bearing tree
3	Anthocyphylus kadamba	Kadamb	1	large tree , good for road side plantation
4	Azadiracta indica	Neem	7	Medicinal value, Bird attracting species , Keeps the oxygen level in atmosphere balance
5	Bahunia blackena	Kanchan	5	Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
6	Brassia Actininophyla	Umbrella plant	5	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
7	Cassia fistula	Bahawa	5	Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
8	Citron limonia	Nimbu	4	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
9	Cocos Nucifera	Coconut	8	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
10	Ficus Benjamina	Ficus	17	Medicinal value, fruit bearing trees

11	Largerstroemia speciosa	Tamhan	5	Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
12	Mangifera indicavariety	Mango	1	fruit bearing tree
13	Michelia champaca	Sonchapha	11	flowering tree, butterfly host plant
14	Mimusops elengi	Bakul	5	flowering tree, shade tree, Medicinal plant
15	Nyctanthus Arboristis	Parijatak	1	flowering tree
16	Plumeria pudica	Golden Arrow	4	Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
17	Phylanthus emblica	Amla	5	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
18	Syzigium cumini	Jambhul	4	Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
19	Tarmarindus indica	Chinch	6	fruit bearing tree
20	Terminnallia catappa	Badam	7	fruit bearing tree
21	Plumeria Rubra	Frangipani	3	Herbal remedy
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 Kw
	DG set as Power back-up during construction phase	82.5 KVA
	During Operation phase (Connected load):	2764 KW
	During Operation phase (Demand load):	2209 Kw
	Transformer:	630 KVA x 4 No. , 200 KVA x 1 No.
	DG set as Power back-up during operation phase:	125 KVA x 1 No., 625 KVA x 2 No.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Auto timer control for external & common lighting
Use of LED lamps in all public / common areas
solar powered water heating
Electronic V3F drives for elevators
Solar PV panel power for common ares lighting
Five star rated pumps

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Energy - Out door lighting / street lights	42000 KWH/Annum - 1.21%
2	Auto timer logic control	68755.05 KWH /Annum - 1.99 %
3	Electronic V3F drives for elevators	39209.76 KWH/Annum - 1.13 %
4	Solar water heater	294060 KWH/Annum - 8.49 %
5	Total Energy saving	534514.73 KWH/Annum - 15.43 %
6	Using LED lights	73122.28 KWH/Annum - 2.11%
7	Using Five star rated pumps	17317.64 KWH/Annum - 0.5 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage Generation	STP	STP
Wet waste	OWC	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	57.31 Lakh
	O & M cost:	2.82 Lakh/yr.

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 Seperation measures & barrricading	5.0
2	Site Safety	Nets, Baricades	2.0
3	Site Sanitation	Public toilets	2.0
4	Disinfection & health Check up	Health Camp for Labours	2.0
5	Environmental Monitoring	Air, Water , Noise analysis	1.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	To treat waste water	58	18
2	RWH	To recharge Rain water in ground	4.5	0.5
3	Storm water Network	To collect storm water	16	0.5
4	Solid waste Management	To Recycle	22	12

5	Landscape	To Maintain Greenery	20	4.5
6	Energy Saving	To save electrical Energy	57.31	2.82

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2
Parking details:	**Number and area of basement:**	2 No. , Area - 4035.20 sq.m
	Number and area of podia:	NA
	Total Parking area:	23095.4 sq.m
	Area per car:	cover - 30 m , Basement - 35 m
	Area per car:	cover - 30 m , Basement - 35 m
	Number of 2-Wheelers as approved by competent authority:	1073
	Number of 4-Wheelers as approved by competent authority:	525
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 a (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	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
18 (A) Proposed built up area - FSI & Non FSI	FSI - 24251.17 sq.m, Non FSI - 32897.91 sq.m, Total Built up area - 57149.08 sq.m	FSI - 27917.51 sq.m, Non FSI - 37349.4 sq.m, Total Built up area - 65266.91 sq.m

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Proposal Number	SEIAA-STATEMENT-0000001284
Name of Project	Residential cum Commercial Project - Venezia
Project category	8a (B2)
Type of Institution	Private
Project Proponent	M/s. Kunal Sancheti Associates
	Kunal House , opp Kamla Nehru Park, Off Bhandarkar Road, Tal- Haveli, District – Pune 411004
	020- 41227302/03, 9595226267
	hds@kunagroup.in
Consultant	-----
Applied for	EC Application (Violation Case)
Details of previous EC	NA
Location of the project	S. No.45, Baner, Tal.- Haveli, Pune.
Latitude and Longitude	Latitude 18°32'58.59"N Longitude 73°46'27.11"E
Total Plot Area (m2)	19721.61
Deductions (m2)	7949.99
Net Plot area (m2)	11771.62
Proposed FSI area (m2)	27917.51
Proposed non-FSI area (m2)	37349.40
Proposed TBUA (m2)	65266.91
TBUA (m2) approved by Planning Authority till date	Sanction plan vide no. CC/3012/18 DATED -28.12.2018 for Total Built up Area 65266.91 sq.m
Ground coverage (m2) & %	3418.73 sq.m (29.04 %)
Total Project Cost (Rs.)	90.14 Cr.

Details of Building Configuration :

Previous EC / Existing Building			Proposed Configuration		
Building Name	Configuration	Height (m)	Building Name	Configuration	Height (m)
Wing A	Pk + Pk + 10 F	29.90	Wing D	2 B + Ground Pk + Mezz + 2 Pk + 12 F	55.80
Wing B	Pk + Pk + Pk + 10 F	29.90			
Wing C	Pk + Pk + Pk + 10 F	29.90			

PP has applied as per the MoEF&CC Notification dated 14/03/2017 and 8/03/2018. PP informed that the total constructed area on site is: 38621.00 m2.

PP was issued Terms of Reference in 84th SEAC-3 meeting for undertaking Environment Impact Assessment (EIA) and preparation of Environment Management Plan (EMP). Accordingly, PP has submitted Environment Impact Assessment (EIA) and Environment Management Plan (EMP).

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

During discussion following points emerged:

1. PP to submit Debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

2. PP to show internal storm water drain and sewer line arrangements up to final disposal point.

3. PP to submit detailed phase wise development plan with safety planning where occupancy has been given.

4. Environmental status report including analysis reports of all environmental pollution reduction facilities if any commissioned.

5. PP to submit Disaster management plan.

6. Preparation of site specific, executable and auditable environment management plan (EMP)

7. The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 2.124 Cr. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 1.8 Cr which is less than the remediation / augmentation plan.

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

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Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 meeting day 02

SEAC Meeting number: 103 **Meeting Date** February 12, 2020

Subject: Environment Clearance for Zensar Technologies Ltd.

Is a Violation Case: Yes

1.Name of Project	Kharadi Knowledge Park, MIDC Kharadi, Pune
2.Type of institution	Private
3.Name of Project Proponent	Zensar Technologies Ltd.
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial Estate
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	Proposal is for Environment Clearance for existing Knowledge Park
8.Location of the project	Plot no 4-MIDC Kharadi, Kharadi, Pune, Maharashtra.
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	Mr. Shashank Bangale
Room Number:	-
Floor:	-
Building Name:	Zensar Knowledge Park,
Road/Street Name:	Plot No. 4, MIDC, Off Nagar Road
Locality:	Kharadi
City:	Pune – 411014
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	EE/IT/Plans/2227 of 2007 dtd.27.11.2007 for Cafeteria bldg. and EE/IT/Plans/2365 of 2007 dtd.19.12.2007 for Rockies & Fuji bldgs.
	IOD/IOA/Concession/Plan Approval Number: EE/IT/Plans/2227 of 2007 dtd.27.11.2007 for Cafeteria bldg. and EE/IT/Plans/2365 of 2007 dtd.19.12.2007 for Rockies & Fuji bldgs.
	Approved Built-up Area: 52450.43
13.Note on the initiated work (If applicable)	Construction of the project is completed.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC Allotment letter dated 7th April 2003
15.Total Plot Area (sq. m.)	44,043.00 sq.m
16.Deductions	-
17.Net Plot area	44,043.00 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 36,629.82
	b) Non FSI area (sq. m.): 15,860.61
	c) Total BUA area (sq. m.): 52450.43
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 36,629.82
	Approved Non FSI area (sq. m.): 15,860.61
	Date of Approval: 19-12-2007
19.Total ground coverage (m2)	9474.52
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21.5%
21.Estimated cost of the project	1100000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A' Block – Alps	Lower Ground + Ground + 4 floors	23.95
2	A1' Block - Himalaya	Lower Ground + Ground + 4 floors	21.85
3	Transformer	Ground floor	4.5
4	Security Cabin	Ground floor	3.82
5	Cafeteria	Basement + Lower ground + Ground + 1 floor	12.0
6	Corporate Block	Stilt + Ground + 1 floor	9.88
7	Fuji	Basement + Lower ground + Ground+ 7 floors	38.25
8	Rockies	Basement + Lower ground + Ground+ 4 floors	26.175

23.Number of tenants and shops	NA
24.Number of expected residents / users	For Entire Project: 3625 Nos For Phase III:1805 Nos
25.Tenant density per hectare	823
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	50 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	Total built-up area including FSI and Non FSI constructed till date = 52450.43sq m (inclusive all three phases) Construction taken place after EIA notification 14.9.2006 and without EC (Phase III) = 28651.46 sqm
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**	MIDC
	Fresh water (CMD):	91
	Recycled water - Flushing (CMD):	73
	Recycled water - Gardening (CMD):	23
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	186
	Fire fighting - Underground water tank(CMD):	438
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	37
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	91
	Recycled water - Flushing (CMD):	73
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	164
	Fire fighting - Underground water tank(CMD):	438
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	63
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 4m
	Size and no of RWH tank(s) and Quantity:	10 nos.
	Location of the RWH tank(s):	Refer enclosed layout
	Quantity of recharge pits:	10 nos
	Size of recharge pits :	1mX1mX1m
	Budgetary allocation (Capital cost) :	15.0 Lacs
	Budgetary allocation (O & M cost) :	3.0 Lacs
	Details of UGT tanks if any :	LGF of Himalaya and Cafeteria buildings.
35.Storm water drainage	**Natural water drainage pattern:**	Maintained
	Quantity of storm water:	3200 cum per annum
	Size of SWD:	150 MM
Sewage and Waste water	**Sewage generation in KLD:**	147
	STP technology:	RBC
	Capacity of STP (CMD):	150 cmd
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	14.0 lakhs
	Budgetary allocation (O & M cost):	3.0 lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Not applicable
	Disposal of the construction waste debris:	Not applicable
Waste generation in the operation Phase:	**Dry waste:**	Total project: 436 kg/day Phase III: 217 kg/day
	Wet waste:	Total project: 290 kg/day Phase III: 144 kg/day
	Hazardous waste:	15 kl diesel
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	0.2 Kg/day
	Others if any:	3.6 tonns/annum E -Waste

Mode of Disposal of waste:	**Dry waste:**	Dry garbage is segregated into recyclable and non-recyclable & is handed over to the authorized recycler
	Wet waste:	The biodegradable waste is composted using Biogas plant.
	Hazardous waste:	Disposed to MPCB authorized recycler
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dried and composted and used as manure for gardening.
	Others if any:	Sold to MPCB authorized party
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	Appx 200 sq mts
	Area for machinery:	Appx 200 sq mts
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	7.0 lacs
	O & M cost:	1.5 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 :**	4531.39 sq.m.
	No of trees to be cut :	123 nos
	Number of trees to be planted :	450 Nos trees planted
	List of proposed native trees :	Refer Enclosed Tree details
	Timeline for completion of plantation :	Plantation done

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	Refer Enclosed Tree details	Refer Enclosed Tree details	Refer Enclosed Tree details	Refer Enclosed Tree details
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	Refer Enclosed Tree details	Refer Enclosed Tree details	Refer Enclosed Tree details

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL.
	During Construction Phase: (Demand Load)	Not applicable
	DG set as Power back-up during construction phase	Not applicable
	During Operation phase (Connected load):	4392 kW
	During Operation phase (Demand load):	2899 kW
	Transformer:	-
	DG set as Power back-up during operation phase:	4 Nos of 4100 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 measures:
• Replacement of CFL with LED lights
• Power consumption monitoring based on ambient room temperature
• Selected UPS with power consumption less than 25% & Connected two floor on single UPS
• Weekly swiching off one UPS of Workstation & Data Center
• Canteen lights and fan operational controlled on auto timer.
• Timer based management for signboard lights
• Chiller Cooling Management by changing operational method based on low & High tariff hrs

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving measures	(existing +Solar PV) 10.56%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.56,043 for existing Rs 71,00,000 for Solar
	O & M cost:	2,13,000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not applicable	Not applicable	Not applicable

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	-	14.0	3.0
2	Solid Waste Management	-	7.0	1.5
3	Rain Water Harvesting	-	15.0	3.0
4	Green Belt	-	25.0	5.0
5	Energy saving features	-	71	2
6	Firefighting cost	-	100.0	20.0
7	Monitoring of Environmental Parameters	-	1.5	1.0
8	TOTAL	-	233.5	38.5

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:	1 no (T) junction
Parking details:	**Number and area of basement:**	1 basement with 5376 sqm
	Number and area of podia:	NA
	Total Parking area:	4410 sq.m
	Area per car:	20.78 Sq. Mt.
	Area per car:	20.78 Sq. Mt.
	Number of 2-Wheelers as approved by competent authority:	653 nos
	Number of 4-Wheelers as approved by competent authority:	153 nos
	Public Transport:	NA
	Width of all Internal roads (m):	6 mtrs.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	Category B: 8 (a)
	Court cases pending if any	Show Cause Notice received from Environment Department vide no. SEAC-2212/CR-502/TC-2 dtd. 04/07/2014. MPCB has filed case in the Court of Chief Judicial Magistrate at Pune vide Regular Criminal Case no. 0404433 of 2015. Case is dismissed by session court on 18th March 2019
	Other Relevant Informations	We had submitted our application for Environment Clearance to SEAC on 11th Aug 2012. Further as per amendment in EIA notification dtd. 14th March 2017 we had submitted our proposal under violation to MoEF on 2ndAug 2017 (vide Proposal No. IA/MH/NCP/67117/2017). Now as per MoEF OM dated 15th March 2018 and 16th March 2018 we are submitting our application to SEAC/ SEIAA along with necessary documents.

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

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
5.Type of project	Industrial Estate	It's IT park (less than 50 ha) commercial use so 8(a) as area is less
6.New project/expansion in existing project/modernization/diversification in existing project	Proposal is for Environment Clearance for existing Knowledge Park	Expansion
29.Existing structure (s) if any	A Block – Alps FSI: 7277.34 NON FSI:1065.6 Total BUA:8342.9 OC obtained; A1 Block – Himalaya FSI: 8066.8 NON FSI:1021.7 Total BUA: 9088.6 OC obtained; Transformer room FSI: 223.3 NON FSI: 0 Total BUA: 223.3 OC obtained; Security Cabin FSI: 178.2 NON FSI:0 Total BUA: 178.2 OC obtained; Corporate Block FSI: 3882.2 NON FSI: 2083.4 Total BUA: 5965.6 Construction completed; Cafeteria FSI: 2628.6 NON FSI: 2004.4 Total BUA: 4632.9 Construction completed; Fuji & Rockies Block FSI: 14373.4 NON FSI: 96	Total built-up area including FSI and Non FSI constructed till date = 52450.43 sq m Construction taken place after EIA notification 14.9. 2006 and without EC (Phase III) = 28651.46 sqm
32.Total Water Requirement (Dry Season)	Fresh water (CMD): 55	Fresh water (CMD): 91
-	Recycled water - Flushing (CMD): 110	Recycled water - Flushing (CMD): 73
-	Recycled water - Gardening (CMD): 22	Recycled water - Gardening (CMD): 23
-	Excess treated water 6	Excess treated water :37
32.Total Water Requirement (Wet Season)	Fresh water (CMD): 55	Fresh water (CMD): 91
-	Recycled water - Flushing (CMD): 110	Recycled water - Flushing (CMD): 73
-	Excess treated water 6	Excess treated water :63
34.Rain Water Harvesting (RWH)	Quantity of recharge pits: 10 nos	Quantity of recharge pits: RWH system around Rockies & Fuji building and cafeteria comprises (i.e Phase III) 3 nos of recharge pits(Rain water pit+ Borewell)
Size of recharge pits : -	-	1mX 1m X 1m
36.Sewage and Waste water	Sewage generation in KLD:154	Sewage generation in KLD:147
-	STP technology: MBBR	STP technology: RBC
37.Solid waste Management	Dry waste: 508 kg/day Wet waste: 218 kg/day	Dry waste: Total project: 436 kg/day Phase III: 217 kg/day Wet waste:Total project: 290 kg/day Phase III: 144 kg/day
-	Others if any: Refer enclosed E waste details	Others if any:3.6 tons /annum - Ewaste
50.Detail calculations & % of saving:	Energy Saving measures 5%	Energy Saving measures (existing +Solar PV) 10.56% 5%
53. Any Other Information	Court cases pending if any Show Cause Notice received from Environment Department vide no. SEAC-2212/CR-502/TC-2 dtd. 04/07/2014. MPCB has filed case in the Court of Chief Judicial Magistrate at Pune vide Regular Criminal Case no. 0404433 of 2015. The said case is pending for decision & Closure.	Case is dismissed by session court on 18th March 2019.

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

1.Name of Project	Kharadi Knowledge Park, MIDC Kharadi, Pune
2.Type of institution	Private
3.Name of Project Proponent	Zensar Technologies Ltd.
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial Estate
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	Proposal is for Environment Clearance for existing Knowledge Park
8.Location of the project	Plot no 4-MIDC Kharadi, Kharadi, Pune, Maharashtra.
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	Mr. Shashank Bangale
Room Number:	-
Floor:	-
Building Name:	Zensar Knowledge Park,
Road/Street Name:	Plot No. 4, MIDC, Off Nagar Road
Locality:	Kharadi
City:	Pune – 411014
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	MIDC Plan Approval Number: E6/IT/Plans/2365/01 2007, dtd. 19/12/07
	IOD/IOA/Concession/Plan Approval Number EE/IT/Plans/2227 of 2007 dtd.27.11.2007 for Cafeteria bldg. and EE/IT/Plans/2365 of 2007 dtd.19.12.2007 for Rockies & Fuji bldgs.
	Approved Built-up Area: 52450.43
13.Note on the initiated work (If applicable)	Construction of the project is completed.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC Allotment letter dated 7th April 2003
15.Total Plot Area (sq. m.)	44,043.00 sq.m
16.Deductions	-
17.Net Plot area	44,043.00 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): 36,629.82
	Non FSI area (sq. m.): 15,860.61
	Total BUA area (sq. m.): 52450.43
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 36,629.82
	Approved Non FSI area (sq. m.): 15,860.61
	Date of Approval: 27.11.2007 and 19-12-2007
19.Total ground coverage (m2)	9474.52
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21.5%
21.Estimated cost of the project	Rs. 1100000000/-

PP has applied as per the MoEF&CC Notification dated 14/03/2017 and 8/03/2018.

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

During discussion following points emerged:

1. PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF & CC circular dated 1/05/2018 along with details of fund utilization & agreement or consent of executor.

2. PP to submit Disaster management plan.

3. Fire tender movement pan for buildings proposed for EC shall be revised such that 6 m drive way is available all around the building for movement of fire tender.

4. PP to submit cross sections across all buildings indicating drive ways.

5. PP to submit basement ventilation plan and basement approval plan.

6. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per car as per norms.

7. PP to submit evacuation plan for entire project for occupants, visitors and as well as cars.

8. PP to submit permissions granted by State Government in tabular and chronological form. Comparative statement of components approved and components constructed as per earlier EC (if applicable) and proposed development.

9. PP to submit the detailed master plan indicating already completed construction and proposed construction. PP to submit the certificate from architect for completed work

10. PP to submit socio-economic infrastructure details including public transport arrangements on the site.

11. PP to submit contour map with slopes, drainage pattern of the site and surrounding area. Layout showing natural water courses on site; total runoff calculation before and after development.

12. PP to submit debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

13. PP to submit integrated waste management plan.

14. PP to submit details and drawings of internal storm water and sewer line up to final disposal point.

15. PP to submit site specific, executable EMP encompassing monitoring matrix, Environment Cell and responsibility for execution.

16. PP to obtain and submit following NOC's: (a) Water supply with quantity, (c) Drainage NOC. (d) solid waste / e-waste management.

17. The Committee noted that assessment of ecological damage with respect to air, water, land and other environmental attributes carried out by PP is 1.15 Cr.

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

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Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

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

Is a Violation Case: No

1.Name of Project	Oxford City
2.Type of institution	Private
3.Name of Project Proponent	Mr. Haresh Shah
4.Name of Consultant	VK: e environmental LLP, Office: 73/2, Bhakti Marg, Law College Road, Pune - 411 004 020-66268888 ; Fax: 020-66268801
5.Type of project	Township
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in earlier EC granted on 15th January 2019 vide letter SEIAA-EC-0000000622
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC Granted 1.No. 21-154/2006/IA-III date 17 Oct. 2006. 2. No. 21-362/2007/IA-III dated 27 Dec. 2007. 3. SEIAA-EC-0000000622
8.Location of the project	Gat No. 1167 to 1179,1181, 1183 to 1189, 1191 to 1198,1200 to 1204,1206 to 1232, 1241, 1243, 1245, 1246, 1247, 1253, 1259, 1261, 1263 to 1266, 1268 to 1284, 1286 to 1289, 1292, 1298 to 1303, 1317, 1656 to 1660 at village Lavale and Gat No. 23, 34/1, 34/2/1, 34/4b/1, 129/1, 131, 132, 135, 137/1, 137/2, 137/3, 159, 163, 168, 199, 200/3 at village Bavdhan, Pune, Maharashtra.
9.Taluka	Mulshi
10.Village	Lavale and Bavdhan
Correspondence Name:	M/s. Knowledge City Education Pvt. Ltd. & M/s. Oxford Golf & Resorts Pvt. Ltd.
Room Number:	501
Floor:	4th Floor
Building Name:	Kensington Court
Road/Street Name:	Lane No.5, off North main road
Locality:	Koregaon Park
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Metropolitan Regional development Authority (PMRDA)
12.IOD/IOA/Concession/Plan Approval Number	CC issued by PMRDA
	IOD/IOA/Concession/Plan Approval Number: Sanctioned vide No. BMU/Mouje Lavale/S.N. 1168 and others/PN/31/2017-18 dt. 10.04.2018
	Approved Built-up Area: 1545578.96
13.Note on the initiated work (If applicable)	Work in progress as per Earlier EC granted
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Yes
15.Total Plot Area (sq. m.)	3857154.00
16.Deductions	220554.83
17.Net Plot area	3636599.17
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 4253512.80
	b) Non FSI area (sq. m.): 1170910.51
	c) Total BUA area (sq. m.): 5424423
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 1287982.47
	Approved Non FSI area (sq. m.):
	Date of Approval: 10-04-2018
19.Total ground coverage (m2)	254682 Sq. m.

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	6.6 % of Total Plot Area and 7.0 % of Net Plot Area
21.Estimated cost of the project	150000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	OCR -1: G1BA G1BA (No of Bldg. 6)	2PD+30	99.90
2	OCR -1: G7 G1BA (No of Bldg. 2)	2PD+30	99.90
3	OCR -1: G3D G1BA (No of Bldg. 3)	2PD+30	99.90
4	OCR -1: G4A G1BA (No of Bldg. 6)	2PD+30	99.90
5	OCR -2: N1Cb G1BA (No of Bldg. 4)	3PD+30	99.90
6	OCR -2: N1Da G1BA (No of Bldg. 2)	3PD+30	99.90
7	OCR-2: G3D G1BA (No of Bldg. 3)	3PD+30	99.90
8	OCR-2: MLCP+C8 G1BA (No of Bldg. 1)	6	24.00
9	OCR 2: C5 G1BA (No of Bldg. 1)	3	15.00
10	OCR 2: CG (No of Bldg. 1)	3	15.00
11	OCR 2: C7 (No of Bldg. 1)	3	15.00
12	OCR 3: T1, T3 (No of Bldg. 2)	5PD+30	99.90
13	OCR 3: T2,T4,T5,T6,T7 (No of Bldg. 4)	5PD+30	99.90
14	OCR 4: T (No of Bldg. 1)	2PD+ 30	99.90
15	OCR 5: T (No of Bldg. 3)	2PD+ 30	90.00
16	OCR 6: BLOCK A (No of Bldg. 1)	G+3	12.27
17	OCR6: BLOCK B (No of Bldg. 1)	G+4	25.00
18	OCR 6: BLOCK Commercial building (No of Bldg. 1)	P + 1	7.20
19	OCR6: BLOCK E (No of Bldg. 1)	G+7	28.15
20	OCR-6 Iconic I (No of Bldg. 1)	G+12	44.90
21	OCR 6: Iconic II (No of Bldg. 1)	G+12	44.90
22	OCR 6: Parking Building (No of Bldg. 1)	P+1	6.00
23	OCR-7 +8 TYPE-1 (No of Bldg. 18)	G+2	14.50
24	OCR-7 +8 TYPE-2 (No of Bldg. 3)	G + 2	14.50
25	OCR-7 +8 TYPE-3 (No of Bldg. 79)	G + 2	14.50
26	OCR-7 +8 TYPE-4 (No of Bldg. 13)	G + 2	14.50
27	OCR-7 +8 TYPE-5 (No of Bldg. 21)	G + 2	14.50
28	OCR-7 +8 TYPE6 (No of Bldg. 18)	G + 2	14.50
29	OCR 9 T (No of Bldg. 1)	2PD+30	99.90
30	OCR 10 T (No of Bldg. 1)	2PD+30	99.90
31	OCR 12 T (No of Bldg. 6)	2PD+30	99.90
32	OCR 13 T (No of Bldg. 4)	2PD+30	99.90
33	OCR 14 E 1 (No of Bldg. 2)	P+17	60.00

34	OCR 14 E 3 (No of Bldg. 2)	P+17	60.00
35	OCR 15 E 1 (No of Bldg. 1)	P+17	60.00
36	OCR 16 E 1 (No of Bldg. 1)	P+18	55.00
37	OCR 17 E 1 (No of Bldg. 1)	P+17	60.00
38	OCR 17 E 1A (No of Bldg. 1)	P+17	60.00
39	OCR 17 E 2 (No of Bldg. 2)	P+17	60.00
40	OCR 17: LOGHUTS (No of Bldg. 10)	G+1	6.0
41	OCR 18 T (No of Bldg. 3)	2PD+30	99.90
42	OCC- 4 Shed -1 (No of Bldg. 1)	G	7.8
43	OCC- 3 Town Hall (No of Bldg. 1)	P+ POD + 7	24
44	OCC- 2 C -2 (No of Bldg. 1)	P+ POD + 23	71.40
45	OCA-4 Health Club (No of Bldg. 1)	P+ 2	15
46	OCA-2 Library Building (No of Bldg. 1)	P+ 7	24.00
47	OCE -9 Health (No of Bldg. 1)	P+ 5	18.15
48	OCE-1 A01 (No of Bldg. 1)	G+1	9.45
49	OCE-1 A02 (No of Bldg. 1)	LG+G+3	14.95
50	OCE-1 A03 (No of Bldg. 1)	G+3	12.00
51	OCE-1 A04 (No of Bldg. 1)	G+2	11.25
52	OCE-1 A05 (No of Bldg. 1)	G+3	12.00
53	OCE-1 A06 (No of Bldg. 1)	G+1	9.45
54	OCE-1 A07 (No of Bldg. 1)	G+3	14.85
55	OCE-1 A08 (No of Bldg. 1)	G+1	9.45
56	OCE-1 A09 (No of Bldg. 1)	G+3	14.85
57	OCE-1 A10 (No of Bldg. 1)	G	5.20
58	OCE-1 A11 (No of Bldg. 1)	G+1	13.11
59	OCE-1 A12 (No of Bldg. 1)	G+1	11.10
60	OCE-1 A13 (No of Bldg. 1)	G	4.02
61	OCE-1 A15 (No of Bldg. 3)	G+1	6.90
62	OCE-1 A16 (No of Bldg. 1)	G+1	7.00
63	OCE-1 A17 (No of Bldg. 1)	G+1	7.00
64	OCE-1 A18 (No of Bldg. 1)	G+1	7.00
65	OCE-1 A19 (No of Bldg. 1)	G+1	7.00
66	OCE-1 A20 (No of Bldg. 1)	G	4.50
67	OCE-1 A21+22 (No of Bldg. 1)	G	6.45
68	OCE-1 A23 (No of Bldg. 1)	G	3.45
69	OCE-1 A26 +2 (No of Bldg. 3)	G+3	13.00
70	OCE-1 A27 +2 (No of Bldg. 3)	G+4	14.95
71	OCE-1 A28 (No of Bldg. 1)	G+3	14.95
72	OCE-1 A40 (No of Bldg. 1)	G	4.35
73	OCE-1 A41 (No of Bldg. 1)	G+2	14.81
74	OCE-1 A42 (No of Bldg. 1)	G+3	15.00
75	OCE-1 A46 (No of Bldg. 1)	G	3.45
76	OCE-1 A47 (No of Bldg. 1)	G	3.45

77	OCE-1 A48 (No of Bldg. 1)	G+4	15.00
78	OCE-1 Auditorium (No of Bldg. 1)	G+1	14.40
79	OCE2:Sport Complex (No of Bldg. 1)	G+1	10.80
80	OCE2:Executive Education Centre (No of Bldg. 1)	G+7	24.00
81	OCE2:Hostel 1 (No of Bldg. 1)	G+3	12.00
82	OCE2:Faculty Housing (No of Bldg. 1)	G+7	24.00
83	OCE 3	0	0
84	OCE 4	0	0
85	OCE -5 Building-1 (No of Bldg. 1)	G+3	14.90
86	OCE -5 Building-2 (No of Bldg. 1)	G+3	14.90
87	OCE -5 Building-3 (No of Bldg. 1)	G+3	14.90
88	OCE -5 Building-4 (No of Bldg. 1)	G+3	14.90
89	OCE -5 Building-5 (No of Bldg. 1)	G+3	14.90
90	OCE -5 Building-6 (No of Bldg. 1)	G+3	14.90
91	OCE7 – Academic Block – A (No of Bldg. 1)	G+3	15.00
92	OCE7 – Academic Block – B (No of Bldg. 1)	G+3	15.00
93	OCE6- School 1 (No of Bldg. 1)	G+3	14.90
94	OCE8 – Housing 2A (No of Bldg. 4)	G+4	16.00
95	OCE8: Housing 3A (No of Bldg. 1)	G+4	16.00
96	OCE8: Housing D-1, D2 & D-3 (No of Bldg. 3)	G+1	7.00
97	OCU-1 Bus Station (No of Bldg. 1)	G	5.00
98	OCU-1 Police Station (No of Bldg. 1)	G	4.20
99	OCU-1 Fire Station (No of Bldg. 1)	G	5.00

23.Number of tenants and shops	No. of Tenements 18922 (Residential) ; total number of buildings 290
24.Number of expected residents / users	275168
25.Tenant density per hectare	50 (permissible 250 per hector)
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m. road developed by project proponent connected to NH-4. Fire station is at distance of 12.0 km. also 3 bay fire station is proposed in Township.

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 mtr
29.Existing structure (s) if any	Work in progress as per Earlier EC granted
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Irrigation Department Pune
	Fresh water (CMD):	8792
	Recycled water - Flushing (CMD):	5158
	Recycled water - Gardening (CMD):	2560
	Swimming pool make up (Cum):	9
	Total Water Requirement (CMD) :	16510
	Fire fighting - Underground water tank(CMD):	500 KL
	Fire fighting - Overhead water tank(CMD):	30 KL
	Excess treated water	4118 (ues for golf course)

Wet season:	**Source of water**	Irrigation Department Pune
	Fresh water (CMD):	8792
	Recycled water - Flushing (CMD):	5158
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	9
	Total Water Requirement (CMD) :	13950
	Fire fighting - Underground water tank(CMD):	500 KL
	Fire fighting - Overhead water tank(CMD):	30 KL
	Excess treated water	5916 ues for golf course)
Details of Swimming pool (If any)	AS per Layout plan	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	500	13488	13988	90	1763	1853	410	11725	12135
Gardening	664	1897	2561	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon depth of Water level 2-5 m
	Size and no of RWH tank(s) and Quantity:	details are given in hydrogeology Report
	Location of the RWH tank(s):	As per contour of the site
	Quantity of recharge pits:	250 Nos.
	Size of recharge pits :	2 x1 x 2 m
	Budgetary allocation (Capital cost) :	220 Lakhs
	Budgetary allocation (O & M cost) :	12 Lakhs/Annum
	Details of UGT tanks if any :	20 UGWT will be provided

35.Storm water drainage	**Natural water drainage pattern:**	Storm water drainage will be designed according to contour of the site
	Quantity of storm water:	222000 cum
	Size of SWD:	1200 mm & 1800 mm in diameter
Sewage and Waste water	**Sewage generation in KLD:**	12185
	STP technology:	MBBR
	Capacity of STP (CMD):	25no. Total Capacity 12330 KLD
	Location & area of the STP:	Shown in Layout Plan
	Budgetary allocation (Capital cost):	Rs. 900 Lakhs
	Budgetary allocation (O & M cost):	Rs. 1 cr/Annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	24 Kg/day
	Disposal of the construction waste debris:	Authorized Dealer
Waste generation in the operation Phase:	**Dry waste:**	24990.5 Kg/Day
	Wet waste:	37486 .0 kg/day
	Hazardous waste:	0
	Biomedical waste (If applicable):	30 Kg/day
	STP Sludge (Dry sludge):	Yes
	Others if any:	Used Oil
Mode of Disposal of waste:	**Dry waste:**	Authorized recycler
	Wet waste:	OWC
	Hazardous waste:	Authorized dealer if any
	Biomedical waste (If applicable):	Authorized Dealer
	STP Sludge (Dry sludge):	Dry Sludge will be used as manure for Gardening
	Others if any:	Authorized Vendor
Area requirement:	**Location(s):**	As per shown in Layout Plan
	Area for the storage of waste & other material:	Enmark area is shown in layout plan
	Area for machinery:	2328 Sq.m for OWC setup.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 3.5 Crores
	O & M cost:	Rs. 50 lacs per annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)

1	pH	NA	7.5-8.5	7.0-7.5	6.5-9.0
2	SS	mg/ltr	150-200	50-100	100
3	BOD	mg/ltr	50-80	10-30	30

Amount of effluent generation (CMD):	90 kld
Capacity of the ETP:	100 KLD
Amount of treated effluent recycled :	88 KLD
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	8-9 kg

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set	2380 ltr/day	122 nos.	as per Norms	appropriate as per height.	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	816 ltr/day	2380 ltr/day	3196 ltr/day
41.Source of Fuel		Local Supplier		
42.Mode of Transportation of fuel to site		by Road through Truck Tanker		

43.Green Belt Development	**Total RG area :**	937455.59 Sq.m. (Including Hill slope plantation)
	No of trees to be cut :	800 Nos. approximate)
	Number of trees to be planted :	7500 trees have been planted and As many as 20000 trees have been planned to be planted
	List of proposed native trees :	Neem, Mango, Jambhul, Fig, Amaltas, Bargad, Shisam, Arjuna, Gulmohar, Jackfruit, Chiku, Ashok, Furcurea, Badam, Royal Palm
	Timeline for completion of plantation :	Not Applicable

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azardirachtaindica	Neem	3000	Dense , Evergreen
2	FicusBenghalensis	Bargad,(Wad)	150	Large, Dense , Evergreen
3	TerminaliaArjuna	Arjuna	2000	semi-deciduous, Medium
4	PolyalthiaPendula	Ashoka	4000	Evergreen, small

5	MangiferaIndica	Amba	1000	Large, Dense , Evergreen
6	SyzygiumCuminii	Jambhul	1000	semi-deciduous, Medium
7	Cassia Fistula	Amaltas	1500	Evergreen, small
8	DalbergiaLatifolia	Shisam	1000	Large, Dense , Evergreen
9	MicheliaChampaka	SoanChafa	800	Large, Dense , Evergreen
10	Manilkarazapota	Chiku	800	semi-deciduous, Medium, tall
11	FurcrataGigantia	Furcurea	700	succulent garden ornamental.
12	DelonixRegia	Gulmohar	1500	Deciduous, Large
13	Artocarpusheterophyllus	Jackfruit	500	Good canopy, Fruit & flower, attracting
14	FicusBenjamina	Fig	550	Deciduous, Large
15	Roystonearegia	Royal Palm	1500	Deciduous, Large
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	197 MW
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	365 MW
	During Operation phase (Demand load):	197 MW
	Transformer:	184 Nos.
	DG set as Power back-up during operation phase:	122 Nos.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	132 KVA line

48.Energy saving by non-conventional method:

Solar Energy Conventional Energy

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

Total Savings/year (KWH) 11920906 83446342 32660 52176020 365232140 27
Total Savings/ day (Kwh) 32660 228620 142948 1000636

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Lighting (for Landscape/Driveway)	50 %
2	Still Floor / Staircase / Lift Lobby Lighting	30 %
3	VFD's on Lifts	20 %
4	Solar Panels for Hot Water	9 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution –Vehicular Movement and DG Set used during power failure only	Acoustic Covered and Chimney	Every DG set having appropriate Acoustic Cover and Chimney (stack) as per CPCB Norms
Sewage	200 KLD and 300 KLD	23 more STP Total capacity after expansion will be 12330 KLD
Solid Waste (Non Bio-degradable) and Bio Degrdable	Bins are Provided	2 OWC will be installed

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.4203.00Lakhs
	O & M cost:	Rs.50.00 Lakh per Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	SPM	495.5
2	Site Sanitation & Safety	mobile toilets	7.2
3	Environmental Monitoring	--	2.75
4	Health & Checkup of Labour	--	12.78
5	TOTAL	--	518.23

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Pollution	Sewage Treatment Plant 23 Nos. Total capacity 12330 KLD	900	100
2	Air Pollution Control Management	Water sprinklers, Stacks of appropriate ht shall be provided to DG Set	25	5
3	Solid Waste Management	Organic Waste Converter OWC and bins will be provided	35	50
4	RWH	250 Nos of pits shall be provided	220	12
5	Energy Conservation	Flat Area (2 Light On PV Solar) solar water heaters & Solar Street Light.	4203	50
6	Environmental monitoring	monitoring	0	11.5
7	--	Total	5383	228.5

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:	The project site is approachable by Mumbai-Bangalore NH-4 road through TarRoad Developed by Project Proponent.

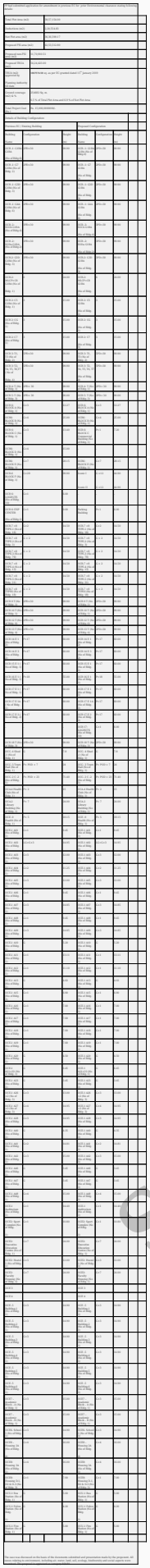
Parking details:	**Number and area of basement:**	None
	Number and area of podia:	46 Podium.
	Total Parking area:	817000 Sq. m.
	Area per car:	As per PMRD Norms
	Area per car:	As per PMRD Norms
	Number of 2-Wheelers as approved by competent authority:	87770 Scooter and 87770 Cycles
	Number of 4-Wheelers as approved by competent authority:	27678 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	12-24 m.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (b), B1
	Court cases pending if any	None
	Other Relevant Informations	The proposed project is Rearrangement of Internal Township sectors. As per earlier EC in OCR 6 .no. of tenements have increased from 315 to 437 and Environmental services have been provided accordingly.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	18-12-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-

Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC



DECISION OF SEAC

During discussion following points emerged:

1. PP to submit detailed geo-hydrological report.

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

******

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for Proposed Residential and Commercial Development

Is a Violation Case: Yes

1.Name of Project	Proposed Residential and Commercial Development
2.Type of institution	TOR
3.Name of Project Proponent	Bhujbal Family
4.Name of Consultant	M/s Enviro Resources
5.Type of project	Housing
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 67, H. No. 2+4 to 7+9 to 11 and H. No. 8A+3+1
9.Taluka	Haveli
10.Village	Kothrud
Correspondence Name:	Mr Suraj Bhujbal
Room Number:	S. No. 160
Floor:	NA
Building Name:	Bhujbal House
Road/Street Name:	NA
Locality:	Kothrud
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	CC/2500/17 dated 29.12.2017
	IOD/IOA/Concession/Plan Approval Number: CC/2500/17 dated 29.12.2017
	Approved Built-up Area: 79080
13.Note on the initiated work (If applicable)	We have constructed as per old sanctions
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	54000
16.Deductions	443.13
17.Net Plot area	53556.87
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 70,818.59
	b) Non FSI area (sq. m.): 64,046.72
	c) Total BUA area (sq. m.): 134865.30
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 70,818.59
	Approved Non FSI area (sq. m.): 64,046.72
	Date of Approval: 02-12-2017
19.Total ground coverage (m2)	9737.06
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.18
21.Estimated cost of the project	153

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A1	B1+P+5	7.30
2	A2	G+1	17.30
3	A3	P+5	19.95
4	A4	P+6	7.30
5	A5	G+1	7.30
6	B 1	P+6	19.95
7	B 2	P+11	35.70
8	B 3	P+5	17.85
9	B 4	P+6	20.10
10	B 5	P+7	22.80
11	B 6	P+5	17.10
12	B 7	SEMBES+P+11	36.0
13	B 8	SEMBES+P+11	36.0
14	B 9	P+10	31.35
15	B 10	B+G+P+15	35
16	C 1	P+10	23.90
17	C 2	P+11	10.05
18	C3	LP+G+2	36.65
19	C 4	L.P+G+7	23.90
20	C 5	L.P+G+2	10.05
21	C 6	LP+PP+11	38.55
22	C 7	LP+PP+11	38.55
23	C 8	P+11	35.55
24	C 9	P+11	36.0
25	C 1 0	M.S + P+11	36.65
26	D1	B1+B2+G+P+15	48.75
27	D2	B1+B2+G+P+15	48.75
28	D3	B1+B2+G+P+P1+14	49.90
29	D4	B1+B2+G+P+15	48.75
30	D5	B1+B2+G+P+15	48.75
31	E1 to E4 Commercial	Semi Base /G+6	23.10

23.Number of tenants and shops	Residential = Existing – 521Nos. Proposed – 674 Nos. Total - 1195 Shop – 2821.84 Sq.mt.
24.Number of expected residents / users	Residential - Existing – 2605 Nos. Proposed – 3370 Nos. Total - 5975 Floating – 300
25.Tenant density per hectare	240.93
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	16M WIDE ROAD KOTHRUD 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	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):	Existing – 234 Proposed – 304
	Recycled water - Flushing (CMD):	Existing – 117 Proposed – 152
	Recycled water - Gardening (CMD):	37
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	493
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	1076 (for all building
	Excess treated water	151

Wet season:	**Source of water**	PMC
	Fresh water (CMD):	Existing – 234 Proposed – 304
	Recycled water - Flushing (CMD):	Existing – 117 Proposed – 152
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	456
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	1076 (for all building
	Excess treated water	151
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	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:**	4 m to 7.5 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	21 no's (Existing 13 + Proposed 8
	Size of recharge pits :	2M x 2 M
	Budgetary allocation (Capital cost) :	21.0 lACS
	Budgetary allocation (O & M cost) :	0.42 LACS
	Details of UGT tanks if any :	NA

35.Storm water drainage	**Natural water drainage pattern:**	South – Waste Corner
	Quantity of storm water:	12.00 m3 / sec
	Size of SWD:	450mm Dia.
Sewage and Waste water	**Sewage generation in KLD:**	409KLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	1NO. OF 410 KL
	Location & area of the STP:	AS PER LAYOUT
	Budgetary allocation (Capital cost):	35.0Lacs
	Budgetary allocation (O & M cost):	14.0Lacs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	37 kg/day
	Disposal of the construction waste debris:	used within site for leveling
Waste generation in the operation Phase:	**Dry waste:**	Existing - 352 Proposed – 674
	Wet waste:	Existing - 821 Proposed – 1011
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	66 kg/day
	Others if any:	Not any
Mode of Disposal of waste:	**Dry waste:**	Through authorised vendor
	Wet waste:	Through Organic waste composting machine
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	used as manure within site
	Others if any:	Not any
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	130 sq. m
	Area for machinery:	considered in above area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	36.50Lacs
	O & M cost:	8.54 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	Diesel	Diesel	Diesel	Diesel

41.Source of Fuel	near by pumps
42.Mode of Transportation of fuel to site	via road

43.Green Belt Development	**Total RG area :**	5355.66 Sq. m.
	No of trees to be cut :	0
	Number of trees to be planted :	670
	List of proposed native trees :	670
	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	Mangifera indica	Mango	30	Fruit bearing evergreen tree
2	Psidium guajava	Peru	30	Fruit bearing evergreen tree
3	Moringa oleifera	Shevga	40	Fruit bearing evergreen tree
4	Muntingia calabura	Singapur chery	50	Fruit bearing evergreen tree
5	Ficus benjamina	Umber	25	Fruit bearing evergreen tree

6	Terminalia catapa	Badam	25	Fruit bearing tree
7	Tamarindus indica	Chinch	20	Fruit bearing evergreen tree
8	Ziziphus mauritiana	Bor	30	Fruit bearing tree
9	Cocos nucifera	Coconut	40	Fruit bearing evergreen tree
10	Syzygium cumini	Jambhul	50	Fruit bearing evergreen tree
11	Saraca asoca.	sita ashok	40	Flower bearing evergreen tree
12	Lagerstroemia speciosa.	Tamhan	35	Deciduos tree
13	Peltophorum pterocarpum	copper pod	30	evergreen tree
14	Neolamarckia cadamba	Kadamb	35	evergreen tree
15	Polyalthia longifolia	Ashok	25	evergreen tree
16	Samania saman	rain tree	50	evergreen tree
17	Acrus sapota variety	Chickoo	30	Fruit bearing evergreen tree
18	Cassia Fistula	Bhava	35	Cassia fistula the golden shower tree is a medium-size tree, full yellow flowers during summer season, Grows in less soil & growing to 10-20 m tall with fast growth, ,larval host for butterflies.
19	Nyctanthes arbortristic	Parijatak	20	Parijatak is a shrub or small flowering tree growing to 10 M tall
20	Michelia champaca	Sonchafa	20	Michelia champaca is a large evergreen and fragrant flower tree
21	Pongamia glabra	Karanj	20	Pogamia pinnata is a legume tree that grows to about 15-25 M in height with a large canopy which spreads equally wide.
22	Millingtonia tree	Buch	35	The tree grows to height of between 18 and 25 m and has a spread of 7 to 11 m. It reaches maturity between 6 and 8 years of age and lives for up to 40 years. It is a versatile tree which can grow in various soil types and climates with a preference for moist climates; the tree is evergreen and has an elongated pyramidal stem.
23	Bauhinia racemosa	Aapta	30	It is a small crooked tree with drooping branches that grows 3–5 m (10–16 FT) tall and flowers between February and May. The leaves are used in the production of beedi, a thin Indian cigarette
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)	100kVA
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	Phase 1 – 3058 Phase 2 -4397
	During Operation phase (Demand load):	Phase 1 – 1424 Phase 2 -2159
	Transformer:	Phase 1 – 2 X 630 kVA Phase 2 - 4X 630 kVA
	DG set as Power back-up during operation phase:	Phase 1 – 1 X 200 Phase 2 –11 X 82.5
	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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Energy (PV Panels)	0.50%
2	Auto. Timer Logic Controller	6.10 %
3	Electronic VVF drive for Lifts	1.49 %
4	Solar Water heater	13.48 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	STP
Emission	DG sets with stack	DG sets with stack
MSW	Sent to PMC	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	845.29lacs
	O & M cost:	19.88lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	AIR ENVIRONMENT	WATER FOR DUST SUPPRESSION Air & Noise monitoring	1.68
2	WATER ENVIRONMENT	Tanker water for construction water monitoring	3.0
3	LAND ENVIRONMENT	SITE SANITATION	6.0
4	BIOLOGICAL ENVIRONMENT	Landscaping	5
5	SOCIO- ECONOMIC ENVIRONMENT	DISINFECTION- PEST CONTROL first aid facilites HEALTH CHECK UP Creches for children Personal protective equipment	7.75

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Treatment of Sewage	35.0	14.0
2	Rain Water Harvesting	pits	21	0.42
3	Solid Waste Management	OWC	36.50	8.54
4	Green Belt Development	Landscaping	50.15	7.75
5	Electrical	Energy saving	845.29	19.88
6	Environmental Monitoring	Environmental Monitoring	out side lab	10.20

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:	15m wide DP road

Parking details:	**Number and area of basement:**	6 basement having 5581.41
	Number and area of podia:	NA
	Total Parking area:	35,523.78
	Area per car:	30
	Area per car:	30
	Number of 2-Wheelers as approved by competent authority:	Existing – 1,048 Proposed – 1,018
	Number of 4-Wheelers as approved by competent authority:	Existing – 523 Proposed - 509
	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(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

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Total Plot Area (m^2)	54,000
Deductions (m^2)	443.13
Net Plot area (m^2)	53,556.87
Proposed FSI area (m^2)	58,711.51
Proposed non-FSI area (m^2)	57,532.23
Proposed TBUA (m^2)	58,711.51
TBUA (m^2) approved by Planning Authority till date	1,16,243.74
Ground coverage (m^2) & %	9737.06 - 18.18 %
Total Project Cost (Rs.)	153 Cr.

Details of Building Configuration :

EXISTING BUILDINGS			
Type	Bldg.	Floors	Height
A Type	A2	G+1	7.30
	A3	P+5	17.30
	A4	P+6	19.95
	A5	G+1	7.30
B Type	B1	P+6	19.95
	B2	P+11	35.70
	B3	P+5	17.85
	B4	P+6	20.10
	B5	P+7	22.80
	B6	P+5	17.10
	B7	Semi Base+P+11	36.0
	B8	Semi Base+P+11	36.0
	B9	P+10	31.35
C Type	C1	P+10	35.0
	C4	L.P+G+7	23.90
	C5	L.P+G+2	10.05
	C6 & C7	LP+PP+11	38.55
	C8	P+11	35.55
	C9	P+11	36.0

PROPOSED BUILDINGS			
Type	Bldg.	Floors	Height
A Type	A1	B1+B2+G+P+15	48.75
B Type	B10	B+G+P+15	48.45
C Type	C2	P+11	36.85
	C3	B1+B2+P+11	36.65
	C10	M.S + P+11	36.65
D Type	D1	B1+B2+G+P+15	48.75
	D2	B1+B2+G+P+15	48.75
	D3	B1+B2+G+P+P1+14	49.90
	D4	B1+B2+G+P+15	48.75
	D5	B1+B2+G+P+15	48.75
E Type	E1to E4	Semi Base /G+6	23.10
CLUB HOUSE			

Assessment of Environmental Damages :

Attributes	Scope of saving on account of environmental protection measures	EMP Cost: Recurring cost, per day (Rs.)	EMP Cost: Non-recurring Cost (Rs.)
Air Pollution	Water requirement for sprinkling (KL/day): 5KL/day (average) Cost of 1 tanker of 10 KL is Rs. 350.	210/-	No of days x Cost of tanker x no of tanker/day = 2359x350x0.5= 4.12 Lakh (Deducting 900 monsoon days total No of days for water sprinkling = 3259 -900 = 2359)
Water Pollution	A. Cost of water requirement: a). Construction phase: b). Operation phase B. Cost of sewage treatment, reuse & disposal: a). Construction phase: b). Operation phase: C. Quantity of water pumped out during excavation and a lump sum cost of Rs. 50 per cum for such unauthorized water extraction and disposal D. Cost of Construction & Maintenance of recharge well:	a) Construction phase No. of labours = 150 Recurring cost for water consumption = Labour water consumption x rate of water = 11.25 m^3/day x Rs. 4 /1000 = Rs. 45/day [PCMC rate of drinking water @Rs. 4/ m^3] b) Operation Phase: No of Flats under violation x occupancy x 135 lpd x rate of water = 312 x 5 x 135 x 4 /1000 = Rs. 842 /day [Rate of water @Rs. 4/ m^3 (Source PCMC water) a) Construction Phase Sewage: =Sewage generation x rate of treatment =10.125 m^3/day x 10 Rs./m^3/day =Rs. 101.25/day b) Operation Phase: = 190 m3/day x Rs 10 Rs./m^3/day = Rs. 1900 /day Nil Nil	Nil Water for Construction = 39667 mx 2 m^3/m^2 Construction water = Rs. 23.8 Lakh Nil Nil Nil
Soil Environment	In case of demolition has carried out, the cost of demolition waste management plan needs to be discussed and finalized as non- recurring cost	Nil	Nil
	In case there is some hazardous waste like asbestos or the site is located on industrial area where hazardous chemical or waste was handled, the cost based on due diligence of the project site, as given by consultants. (The report must include soil analysis, water analysis, MPCB consent copies, manifest of HW if any). This requires critical examination from SPCB.	Nil	Nil
	Cost of preservation of top soil & excavated earth to be considered. [Area (m2)x depth (m)x sp. Gravity (kg/m3)x cost per ton (Rs.)]	Nil	7,50,000
Noise and Vibration	For damage due to noise pollution & vibration, the cost of barricades around the project site should be considered. [perimeter (m) x height of the barricade(m) x cost of the sheet)	No	Site Barricading = 935 m x Rs. 100 per running mtr = Rs. 93500
Green Belt	In case of any tree cutting without EC cost of Rs. 10000/- per tree apart from any statutory action for such tree cutting if any, Cost of planting & maintaining trees (Number of trees as per the byelaws) Cost of compensatory tree plantation (5 trees for each tree cut)	Nil	Nil Required - 670 trees Trees planted -300 Cost of plantation 5.55 Lakh
RH/OHS	Cost of workers benefit to be considered in view of Building and Other Construction Workers Welfare Cess Act, 1996		Yes Worker welfare Cess is paid to the Authority during sanctions as per the directions of PMC
	A. cost of health checkup of workers: B. cost of safety measures including PPEs	Nil Nil	15,00,000 12,50,000
	Total Cost		68.86 Lakh

Calculation of Cost of Remediation Plan and Natural & Community Resource Augmentation Plan:

SN	Description	Details	Amount (In Lakh Rs.)
A	Assessment of Environment Damages		
1	Total of Recurring Cost	Cost arrived from above table per day X number of days in violation Construction phase 1. Water Consumption = 3259 x 45 = 1.46 Lakh 2. Sewage = 3259 x101.25 = 3.3 Lakh Completion certificate was obtained on 29.3.2011. hence no of days of operation = 2572 Operational Phase 1. Water Consumption = 842 x 2572 = 21.65 lakh 2. Sewage = 1900 x 2572 = 48.86 Lakh	75.27 Lakh
2	Non-recurring cost	Cost as arrived from above table	68.86 Lakh
	Sub Total (1+2 above)	(Subject to minimum Rs. 1 crore)	144 Lakh
B	Economic benefits accrued due to Violation		
1	Economic benefits	1% of Total Project cost including land, as declared by PP before SEAC, subject to maximum Rs. 10 Cr.	153.00 Lakh
2	Track Record of Project proponent	Incremental cost of Rs. 10 lakhs for each EC violation by PP observed at any other projects in last 3 years	Nil
C	Cost of remediation plan and natural & community resource augmentation plan	Sum of A and B above or amount equivalent to the CER amount as per the MOEF&CC's office Memorandum No: F NO 22-65/2017-IA-III dated 01/05/2018, whichever is higher.	Sum of A and B= 297 Lakh CER Cost (1.5% Project Cost 153 Cr.) = 229.5 Lakh Therefore 229.5 Lakh

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

During discussion following points emerged:

1. PP to submit sewer NOC.

2. The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 2.97 Cr. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 2.295 Cr which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 2.97 Cr for the project completion period.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for proposed construction project by M/s Vinayak Enterprises

Is a Violation Case: No

1.Name of Project	"Eastern River Residency"
2.Type of institution	Private
3.Name of Project Proponent	Mr. Kishor Shankar Garve
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	S. No 90/1, Kashid Park,
9.Taluka	Haveli
10.Village	Pimple Gurav
Correspondence Name:	Mr. Vinayak Garve
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	S.No. 136/1A, Mumbai Bangalore Highway
Locality:	Opp Sayaji Hotel, Wakad
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 42826.93
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Applicable-2013.59m2
15.Total Plot Area (sq. m.)	11291.60m2
16.Deductions	2453.29m2
17.Net Plot area	8838.31m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 25369.65m2
	b) Non FSI area (sq. m.): 17457.28m2
	c) Total BUA area (sq. m.): 42826.93
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 25369.65m2
	Approved Non FSI area (sq. m.): 17457.28m2
	Date of Approval: 05-04-2019
19.Total ground coverage (m2)	2269.16m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.09% of total plot area (11291.60m2) , 25.67% of net plot area (8838.31m2)
21.Estimated cost of the project	579900000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building- A	P+10	31.90 m
2	Building- B (Commercial)	P+8	26.10 m
3	Building- C	P+12	37.70 m
4	Building- D	P+12	37.70 m
5	Building- E	P+12	37.70 m
6	Building- F	P+12	37.70 m
7	Building- G (MHADA)	P+12	37.70 m

23.Number of tenants and shops	Total Tenements- 441Nos, Offices= 19 Nos. (Resi= 394 Nos., MHADA= 47Nos.)
24.Number of expected residents / users	Residential Users- 1970 Nos, MHADA Users- 235 Nos, Commercial Users- 215 Nos. Total Users: 2420Nos.
25.Tenant density per hectare	391/H
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18m & 45m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	Existing hotel on site.
30.Details of the demolition with disposal (If applicable)	Existing hotel 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	NA	NA	NA	NA

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	317.34m3/day (One time)
	Recycled water - Flushing (CMD):	104.59m3/day
	Recycled water - Gardening (CMD):	10.00m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	202.75m3/day
	Fire fighting - Underground water tank(CMD):	300.00m3
	Fire fighting - Overhead water tank(CMD):	140.00m3
	Excess treated water	162.00m3/day
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	307.34 m3/day (One time)
	Recycled water - Flushing (CMD):	104.59m3/day
	Recycled water - Gardening (CMD):	0.00m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	202.75m3/day
	Fire fighting - Underground water tank(CMD):	300.00m3
	Fire fighting - Overhead water tank(CMD):	140.00m3
	Excess treated water	172.00m3/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	NA	NA	NA	NA	NA	NA	NA	NA	NA

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Level of the Ground water table: Summer Season – 14.00 m. to 21.67 m. BGL. (17.84 M. Average), Rainy Season – 6.33 m. to 10.00 BGL. (8.17 M. Average), Winter Season – 10.17 m. to 15.84 m. BGL. (13.01 M. Average).
	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 :	2.25 m. X 2.25 m. X 1.75 m. Depth with 45 to 60 m. Deep 6" Dia. Bore Well via 2 No. of de-siltation pits of 0.9 m. Dia. 1.0 m. Depth.
	Budgetary allocation (Capital cost) :	Rs. 6.25 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.30 Lakh/Year
	Details of UGT tanks if any :	Domestic UG tank Capacity: 305.00 m3 Flushing UG tank Capacity: 99.00 m3 Fire UG tank Capacity: 300.00 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	5,965.23 m3 / Year i.e. 119.30 m3 / Day, considering 849.30 mm. annual rain fall in 50 days averagely.
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	276.59 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	STP=290m3/day
	Location & area of the STP:	STP= 117.12m2
	Budgetary allocation (Capital cost):	STP = Rs. 81.00 Lakh
	Budgetary allocation (O & M cost):	STP = Rs. 14.64 Lakh / Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	50 Kg/day
	Disposal of the construction waste debris:	Use for Levelling
Waste generation in the operation Phase:	**Dry waste:**	473 Kg/Day
	Wet waste:	684 Kg/Day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	43.11 Kg/Day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Authorized Vendor
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure after treatment in OWC
	Others if any:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	OWC= 49.50m2
	Area for machinery:	Included in other material area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 17.19 Lakh
	O & M cost:	Rs. 9.02 Lakh/Year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	160 KVA- 1No. (Resi)	HSD-30 Lit/Hr	S-1	5.22	To be provided	To be provided
2	15 KVA- 1No. (MHADA)	HSD- 3.3 Lit/Hr	S-2	2.4	To be provided	To be provided
3	15 KVA- 1No. (Comm)	HSD- 3.3 Lit/Hr	S-3	2.4	To be provided	To be provided

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	36.6 lit/hr @75% Loading	36.6 lit/hr @75% Loading

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 :**	985.00 m2
	No of trees to be cut :	-
	Number of trees to be planted :	135 Nos.
	List of proposed native trees :	135 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	Saraca indica	Sita Ashok	9	Fragrant flowers or leaves attracts birds/butterflies/bees, deep green, shiny foliage.
2	Syzygium cumini	Jamun	3	Tall evergreen tree with fruit bearing.
3	Artocarpus heterophyllus	Jackfruit	3	Tall evergreen tree with fruit bearing.
4	Pongamia glabra	Indian Beech	5	Good medicinal use.
5	Neolamarkia cadamba	Kadamba	3	Fruit bearing tree attracts birds.
6	Bauhinia purpurea	Rakta Kanchan	8	Fragrant flowers or leaves plant for pooja, evergreen tree.
7	Mimusops elengi	Bakul	3	Shady tree, small white fragrant flower.
8	Plumeria alba	Champa	22	Evergreen tree with fragrant flowers.
9	Kailashpati couroupita	Kailashpati	3	Evergreen tree with fruit bearing.
10	Poltalthia longifolia	Ashok	3	Ornamental tree.
11	Bombax seiba	Cotton Tree	2	Shady tree, small white fragrant flower.
12	Khaya grandis	khaya	6	Evergreen tree.
13	Azadirachta indica	Neem	3	Plant for pooja/evergreen fragrant flowers or leaves quick growing/insect repellent.
14	Mangifera indica	Mango	3	Tall evergreen tree with fruit bearing.
15	Butea monosperma	Palas	6	Fragrant flowers or leaves flowers covering the entire crown plant for pooja.
16	Albizia lebbeck	Shirish	10	Fragrant flowers or leaves attracts birds/butterflies/bees. Drought tolerant.
17	Caryota urens	Fishtail Palms	5	Tall evergreen tree.
18	Lagerstromia flosregina	Jarul	3	Creates shade, Attracts birds/ butterflies/ bees. Good for screening.

19	Nyctanthes arbortristis	Parijat	7	Small flowering tree.
20	Michellia champaka	Son chapa	6	Flower butterfly, host plant, medium size evergreen tree, fragrant yellow.
21	Putranjiva roxburghi	Putranjiva	5	Evergreen tree with medicinal use.
22	Cassia fistula	Golden Shower	6	Auspicious, attracts birds/bees/butterflies hanging or weeping growth.
23	Areca catechu	Supari Palms	11	Ornamental nutty tree.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	40 KVA – 1 No
	During Operation phase (Connected load):	1903 KW
	During Operation phase (Demand load):	1113 KW
	Transformer:	2 Nos x 630 KVA
	DG set as Power back-up during operation phase:	1) 160 KVA-01 no.(Resi), 2) 15 KVA- 01 no.(Comm), 3) 15 KVA- 01 no.(MHADA)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Measures to reduce energy consumption :
1.Generally we have proposed high efficiency transformer, motors etc. to reduce losses.
2.Electronic Ballasts and Energy efficient lamp source either triposphere or LED are proposed for common area & general lighting with automatic time based control to save power by switching ON & OFF the lights at appropriate time. The estimated saving in common lighting consumption is up to 20 % due to adopting above measures.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total of all Savings for (per year)	20%

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 authorized vendor.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.53.00Lakh
	O & M cost:	Rs. 1.06 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	Sewage Treatment Plant	Rs. 81.00 Lakh	Rs. 14.64 Lakh/Year
2	RWH	Rainwater Harvesting	Rs. 6.25 Lakh	Rs. 0.30 Lakh/Year
3	MSW (OWC)	Organic Waste Converter	Rs. 17.19 Lakh	Rs. 9.02 Lakh/Year
4	Energy System	-	Rs. 53.00 Lakh	Rs. 1.06 Lakh/Year
5	Landscaping	-	Rs.10.00 Lakh	Rs. 1.20 Lakh/Year
6	Safety Equipments	-	Rs. 10.00Lakh	Rs. 2.00 Lakh/Year
7	Post EC Monitoring	-	-	Rs. 2.50 Lakh/Year
8	Dry Waste Management	-	-	Rs. 2.64 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
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	11532.80 m2
	Area per car:	44.18m2
	Area per car:	44.18m2
	Number of 2-Wheelers as approved by competent authority:	1016 Nos.
	Number of 4-Wheelers as approved by competent authority:	261 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m & 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	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

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Total Plot Area (m^2)	11291.60 m^2
Deductions (m^2)	2453.29 m^2
Net Plot area (m^2)	8838.31 m^2
Proposed FSI area (m^2)	25369.65 m^2
Proposed Non-FSI area (m^2)	17457.28 m^2
Proposed TBUA (m^2)	42826.93 m^2
TBUA (m^2) approved by Planning Authority till date	42826.93 m^2 (FSI area: 25369.65 m^2 +Non-FSI area: 17457.28 m^2)
Ground coverage (m^2) & %	2269.16 m^2 20.09% of total plot area (11291.60 m^2) 25.67% of net plot area (8838.31m^2)
Total Project Cost (Rs.)	Rs. 579900000

Proposed Configuration		
Building Name	Configuration	Height(m)
Building- A	Parking+10F	31.90 m
Building- B (Commercial)	Parking+8F	26.10 m
Building- C	Parking+12F	37.70 m
Building- D	Parkign+12F	37.70 m
Building- E	Parking+12F	37.70 m
Building- F	Parking+12F	37.70 m
Building- G (MHADA)	Parking+12F	37.70 m

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 89th meeting of SEAC-3.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for for Proposed Commercial project at Survey No. - 30 Part, At :- Vadgaonsheri, Tal :- Haveli , Dist:- Pune by Nisarga developers

Is a Violation Case: No

1.Name of Project	for Proposed Commercial project at Survey No. - 30 Part, At :- Vadgaonsheri, Tal :- Haveli , Dist:- Pune by Nisarga developers
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sunil Dhore, Nisarga developers
4.Name of Consultant	Vke environmental LLP
5.Type of project	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	Survey No. - 30 Part, At: - Vadgaonsheri, Tal: - Haveli, Dist.:- Pune.
9.Taluka	Haveli
10.Village	Vadgaonsheri
Correspondence Name:	Mr. Sunil Dhore, Nisarga developers
Room Number:	NA
Floor:	NA
Building Name:	Sapana Copiers
Road/Street Name:	Station road
Locality:	Wadgaon maval
City:	Pune
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	Under process
	IOD/IOA/Concession/Plan Approval Number: Under process
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No work initiated on site.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	5900 sqm
16.Deductions	719.16 sqm
17.Net Plot area	5180.84 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20646.80
	b) Non FSI area (sq. m.): 7565.74
	c) Total BUA area (sq. m.): 28212.54
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 09-05-2019
19.Total ground coverage (m2)	2098 sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	40.49%
21.Estimated cost of the project	747500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1 Commercial building	G+P1+P2+12	53.75

23.Number of tenants and shops	No. of offices :12
24.Number of expected residents / users	Commercial population 2014
25.Tenant density per hectare	Not applicable as it is a commercial project, only floating population will be there.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Project is accessible from 30 m wide DP road. Nearest fire station is Yerawada fire station : 3.00 Km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 7.5 m Driveway & 9m Turning radius will be provided
29.Existing structure (s) if any	Old small structure is present which will be demolished.
30.Details of the demolition with disposal (If applicable)	Debris generated will be segregated and used for site leveling and road leveling.

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):	51
	Recycled water - Flushing (CMD):	40
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	96
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	28

Wet season:	**Source of water**	PMC
	Fresh water (CMD):	51
	Recycled water - Flushing (CMD):	40
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	91
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	33
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 18.00 m. to 22.50 m. BGL. (20.25 M. Average) Rainy Season – 5.00 m. to 11.50 BGL. (8.25 M. Average) Winter Season – 11.50 m. to 17.00 m. BGL. (14.25 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	3 recharge pits are proposed
	Size of recharge pits :	2.25 M. X 2.25 M. X 1.50 M.
	Budgetary allocation (Capital cost) :	3,75,000
	Budgetary allocation (O & M cost) :	20,000
	Details of UGT tanks if any :	Total UGT capacity 300 kld

35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern: The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge pits
	Quantity of storm water:	56.90 m3 / Day
	Size of SWD:	400 mm
Sewage and Waste water	**Sewage generation in KLD:**	73
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of 80 KLD
	Location & area of the STP:	On ground Area: Approx. 60.00sq m
	Budgetary allocation (Capital cost):	32,50,000
	Budgetary allocation (O & M cost):	7,81,800
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total waste generated: 20 Kg/day Dry Waste = 12kg/day , Wet Waste = 8kg / 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:**	302 kg/day
	Wet waste:	201 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	11.5 kg/dy
	Others if any:	E waste : 5.5 kg/day
Mode of Disposal of waste:	**Dry waste:**	Will be Handed over to authorized Vendor
	Wet waste:	Wet waste will be treated in Organic Waste Convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge from STP will be used as manure
	Others if any:	e waste will be handover to authorized e waste Vendor
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	Total area 36 sqm
	Area for machinery:	Total area 36 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	11.25 lacs
	O & M cost:	2.53 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 :**	Required open space: 519 sqm
	No of trees to be cut :	Few trees exists on site.
	Number of trees to be planted :	70
	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	Anthocephallus cadamba	Kadamb	15	Good for roadside plantation and provide shade
2	Cassia fistula	Bahava	11	Have medicinal properties and larval host for butterflies

3	Lagestremia flos regineae	Tamhan	10	Good as a avenue tree, good for group planting around water gardens and ponds.
4	Azadirachta Indica	Neem	14	Good for restoration of dryer parts, good for air purifier and have medicinal properties
5	Albizia lebeck	Shiris	10	Quick growing and hardy tree. Have flowers with delightful fragrance.
6	Mangifera indica	MAngo	10	Good for roadside plantation and provide shade
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)	150 kw
	DG set as Power back-up during construction phase	140 KVA
	During Operation phase (Connected load):	3154.75 KW
	During Operation phase (Demand load):	2103.16 Kw
	Transformer:	2500 KVA x 1 Nos.
	DG set as Power back-up during operation phase:	1500 KVA x 2 nos.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar energy generation: 2.22 % of Demand load

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Conventional T8/CFL with HF Electronic Ballasts & Energy efficient LED fixtures	43.6%

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:**	1048000
	O & M cost:	20000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control, dust suppression measures, top soil preservation	466950/-
2	Land	Labour camp toilets & sanitation	4,80,000/-
3	Health and safety	Labour safety & training	4,00,000/-
4	Health and safety	Health check up & disinfection	51,000/-
5	Environment Management	Environment management cell	1,70,000/-
6	Environmental Monitoring (Per Year)	Air, Water, Noise, Soil, DG set	1,82,600/-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	1 STP	32.50	7.81
2	Organic waste management	1 OWC	11.25	2.53
3	Landscaping	Development and Maintenance	2.95	1.56
4	Rain water harvesting	3 recharge pits	3.75	0.20
5	Energy	Solar PV	10.48	0.20
6	Environment Monitoring	Air,water,Noise,soil,owc manure,DG,Treated water	-	1.85

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

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

52.Any Other Information

No Information Available

53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	The site is located in Viman Nagar Area. The development will be accessible from 30m wide DP Road and 12m wide access/service road while the internal driveways are 7.5 m
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	5560.0 sq.m
	Area per car:	12.5 sqm
	Area per car:	12.5 sqm
	Number of 2-Wheelers as approved by competent authority:	583
	Number of 4-Wheelers as approved by competent authority:	244
	Public Transport:	NA
	Width of all Internal roads (m):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Building & construction
	Court cases pending if any	NA
	Other Relevant Informations	Commercial / IT project
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-

Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Total Plot Area (m^2)	5900 m^2
Deductions (m^2)	719.16 m^2
Net Plot area (m^2)	5180.84 m^2
Proposed FSI area (m^2)	20646.80 m^2
Proposed non-FSI area (m2)	7565.74 m2
Proposed Total BUA (m2)	28212.54 m2
Total BUA (m2) approved by Planning Authority till date	In process
Ground coverage (m2) & %	2098 m2 (40.49%)
Total Project Cost (Rs.)	Rs. 74,75,00,000/-

Proposed Configuration		
Building Name	Configuration	Height (m)
Commercial	G+P1+P2+12 Floors	53.75

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

DECISION OF SEAC

During discussion following points emerged:

1. PP informed that basement is removed and the proposal is altered. PP to submit undertaking regarding the things which are not altered in the layout.

2. PP to resubmit plans as per approval obtained from PMC for LG, UG and stilt floor.

3. All parking for two wheelers shall be on stilt floor and car parking on upper floors.

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

******

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for Environmental Clearance for Proposed development of a Dry Port (Inland Container Depot) cum Industrial Park at Parsodi and Dorli Village in Wardha, Maharashtra by Jawaharlal Nehru Port Trust.

Is a Violation Case: No

1.Name of Project	Proposed development of a Dry Port (Inland Container Depot) cum Industrial Parkat at Parsodi and Dorli Village in Wardha, Maharashtra, India.
2.Type of institution	Government
3.Name of Project Proponent	Jawaharlal Nehru Port Trust Sheva, Tal-Uran, NaviMumbai- 400707 Maharashtra
4.Name of Consultant	Mantras Green Resources Limited
5.Type of project	Dry Port (Inland Container Depot)
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	Distt. Wardha, Taluka- Seloo, Village Parsodi Survey Nos: 62,47/1,47/2,54/1,54/2, 34/2,35/2,35/1,17,52/1,52/2,18,41,10,25,12/1,12/2, 36,38,45, 49/1, 49/2, 53/1,53/2,56/1, 56/2,48,42/1,42/2,11,39, 13, 109, 23,22,21,50/1, 50/2, 61/A, 61/B, 44, 51/1, 51/2, 20, 7, 33, 37, 16, 19, 8, 29,43,55, 40 , Dorli 49, 50
9.Taluka	Seloo
10.Village	Parsodi and Dorli
Correspondence Name:	Jawaharlal Nehru Port Trust
Room Number:	Jawaharlal Nehru Port Trust Sheva, Tal-Uran, Navi Mumbai- 400707 Maharashtra
Floor:	Ground Floor
Building Name:	Administration Building
Road/Street Name:	Sheva,
Locality:	JNPT
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	Not applicable
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)	Work not initiated. Not applicable.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	In Process
15.Total Plot Area (sq. m.)	1400000
16.Deductions	0
17.Net Plot area	14,00,000
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 57910 **b) Non FSI area (sq. m.):** **c) Total BUA area (sq. m.):** 57910
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 57910 **Approved Non FSI area (sq. m.):** **Date of Approval:** 15-01-2018
19.Total ground coverage (m2)	56000
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	4
21.Estimated cost of the project	4770000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Inland Container Depot (ICD)	G+1	12
2	Container Yard (CY)	G	4.5
3	Warehouse (WH)	G	12
4	LIQUID	G+1	9
5	Processing Area/ Warehousing Space (PA/WS)	G+1	9
6	Cold Storage	G+1	9
7	Truck Terminal (TT)	G	6
8	Railway Siding	0	0
9	RTG Workshop	G+1	12
10	Railway Workshop	G+1	12
11	Transit Loading/Unloading	0	0
12	Administration	G+1	12
13	Commercial	G+1	12
14	Utility	0	0
15	Fuel	G	9
16	Fuel	G	9

23.Number of tenants and shops	Not Applicable
24.Number of expected residents / users	1092
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)	Fire station is proposed within project boundary
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9 meters
29.Existing structure (s) if any	No
30.Details of the demolition with disposal (If applicable)	No

31.Production Details

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

1	Not applicable	Not applicable	Not applicable	Not applicable

32.Total Water Requirement

Dry season:	**Source of water**	Maharashtra Jeevan Pradhikaran
	Fresh water (CMD):	22
	Recycled water - Flushing (CMD):	27
	Recycled water - Gardening (CMD):	18
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	49
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	10 CUM per Bldg
	Excess treated water	0
Wet season:	**Source of water**	Maharashtra Jeevan Pradhikaran
	Fresh water (CMD):	22
	Recycled water - Flushing (CMD):	27
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	49
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	10 CUM per Bldg
	Excess treated water	18
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**
Fresh water requirement	Not applicable	22	22	Not applicable	5	13	Not applicable	49	49
Domestic	Not applicable	27	27	Not applicable	0	0	Not applicable	27	27

Gardening	Not applicable	18	18	Not applicable	18	18	Not applicable	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	140 to 200 mts. b.g.l.
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	10
	Size of recharge pits :	3.0 x 3.0 x 2.25 m
	Budgetary allocation (Capital cost) :	7.5 Lakhs
	Budgetary allocation (O & M cost) :	2.0 lakhs
	Details of UGT tanks if any :	Nil

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:	895 m3/min for total plot area
	Size of SWD:	1.50 x 1.50 to 2.0m depth

Sewage and Waste water	**Sewage generation in KLD:**	45
	STP technology:	MBBR
	Capacity of STP (CMD):	165 KLD
	Location & area of the STP:	Near Liquid 3/4 facility
	Budgetary allocation (Capital cost):	481.50 Lac
	Budgetary allocation (O & M cost):	50.0 Lac /Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	The Construction waste generated during construction stage
	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:**	Non-biodegradable – 305 Kg / day
	Wet waste:	Biodegradable – 131 Kg / day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	STP Sludge - 52 kg/day
	Others if any:	Nil

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to Authorized Recycler
	Wet waste:	Wet waste will be treated in OWC & manure will be used for landscaping & gardening.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as manure for landscape development
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Near STP
	Area for the storage of waste & other material:	60 sq.m.
	Area for machinery:	15 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15.0 Lakh
	O & M cost:	3.0 Lakh

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	5No. X 63 kVA	16 Liter/hr	1	1.6	0.0762	490 °C
2	5No. X 120 kVA	30 Liter/hr	1	2.2	0.1016	553 °C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD for DG Set backup	Not applicable	920 Liter/month	920 Liter/month
41.Source of Fuel		Authorized vendor		

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	140021 sq.m.
	No of trees to be cut :	00
	Number of trees to be planted :	17500
	List of proposed native trees :	As below
	Timeline for completion of plantation :	At the time of 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	Azadirachtaindica	Neem	1000	Large tree, good for roadside plantation
2	Albizialebbeck	Shirish	1000	Shady large tree ,ball shaped flowers
3	Ficusbenjamina	Nandarukh	1000	Shady tree, good for roadside Plantation, small fruit are food of birds
4	Pongamiapinnata	Karanj	1000	fast-growing deciduous tree, ornamental and in avenue plantings
5	Caryotaurens	Fishtail palm	1000	Grown in any type of soil. Very Hardy.
6	Mangiferaindica	Mango	2000	Edible fruit, Bird attracting species
7	Syziziumcuminia	Jamun	1500	Medicinal value, Edible fruit.
8	Saracaasoka	Sita Ashok	1000	Shady tree with red-yellow flowers
9	Cassia fistula	Bahava	1000	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
10	Nyctanthesarbortristis	Parijatak	1000	Small deciduous fast growing tree, beautiful flowrers
11	Lagerstroemia flosregineae	Tamhan	1000	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
12	Bauhinia racemosa	Apta	1000	Small tree with small white flowers, Butterfly host plant
13	Buteamonosperma	Palas	1000	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
14	Micheliachampaca	Son chafa	2000	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
15	Putranjivaroxburghii	Putranjiva	1000	Medium sized evergreen tree
16	Total proposed	NA	17500	NA
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL Sindhi
	During Construction Phase: (Demand Load)	3000 kVA
	DG set as Power back-up during construction phase	3 No X 63 kVA &3 No X 120 kVA
	During Operation phase (Connected load):	50000 KW
	During Operation phase (Demand load):	32396 kVA
	Transformer:	Not applicable
	DG set as Power back-up during operation phase:	5 No X 63 kVA &5 No X 120 kVA
	Fuel used:	920 Liter/month
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

• Generally we have proposed high efficiency transformer, motors etc. to reduce losses in comparison with conventional type.
• Electronic ballasts and Energy efficient lamp source either triposphere or CFL or LED are proposed for common area & general lighting with automatic time based control to save power by switching ON & OFF the lights at appropriate illumination level.
• Solar PV Panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of Solar Street lights	1%
2	Use of Solar Street lights	1%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50 Lacs
	O & M cost:	5 Lacs/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	5.0
2	Site sanitation, disinfection & safety	Mobile toilets, fumigation, Personal protective equipments	3.0
3	Environment monitoring	Air, noise, water & soil	3.0
4	Health	Health checkup	4.0
5	Environment Management Cell	Formation of cell	5.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water	Rain Water Harvesting	7.5	2.0
2	Water	Sewage Treatment Plant	481.50	50.0
3	Energy	Solar photo voltaic generation, street lights	50	5
4	Land Environment	Gardening & Tree plantation	175	20
5	Solid waste	Organic Waste Composter	15	3
6	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water, Sewage from STP, Manure	NA	10.0

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:	NA

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	66350 Sq.m.
	Area per car:	Required parking space area of per trucks/Trailer considered 70 & 90 SqMt including manoeuvring space.
	Area per car:	Required parking space area of per trucks/Trailer considered 70 & 90 SqMt including manoeuvring space.
	Number of 2-Wheelers as approved by competent authority:	450
	Number of 4-Wheelers as approved by competent authority:	200
	Public Transport:	Available
	Width of all Internal roads (m):	Minimum 20 & 30 meters
	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) Townships and Area Development projects
	Court cases pending if any	NA
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes

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	IOD/IOA/Concession Document/Plan Approval as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra. 2) 2. PP to include separate chapter	The JNPT is planning for Dry Port & all the plans for approval are in process.
1) PP to 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.	IOD/IOA/Concession Document/Plan Approval	The JNPT is planning for Dry Port & plan approval is in process.
2) PP to Include separate chapter on Renewable energy in EIA report. Submit terrace plan for installing solar panels & calculations of energy saving; Submit energy modeling with write-up support to this.	Renewable energy	Separate chapter on Renewable energy in EIA report is include in Chapter 9, Section 9.10, 9.10.1, 9.10.2, 9.10.3, 9.10.4 Figure 9.9, 9.10 Annexure 1
3) PP to Include carbon footprint estimations for operation & construction phase in EIA report.	Carbon footprint estimations .	Carbon footprint Estimations is included in Chapter 4, Section 4.11, 4.11.1, 4.11.2, 4.11.3 Figure 4.3 Annexure 2

4) PP to Carry out Traffic Impact Study in detail	a. PP to 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; 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. PP to 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. PP to Topographic details of roads and intersection of the surrounding roads where counts are taken, actual geometry on ground to be shown with dimensions.d. PP to Traffic generation values of similar development to be given 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.	Traffic Impact Study in detail is include in Chapter 7A Annexure 3
5) 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.	EMP	Site specific executable and auditable EMP is implemented in Chapter 9, Section 9.14 Table No. 9.12 Annexure 4
6) 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	Fire Tender Movement Plan	Fire Tender Movement Plan is in Chapter 2, Chapter 7, Section 2.7.5, Section 7.7.3 Annexure 5
7) PP to Submit Parking layout plan for all the floors showing slope and width of the ramps.	Parking layout plan	Parking Layout Plan are present in Chapter 2, Table No. 2.9, 2.10, 2.11, 2.12, 2.13 Chapter 7A, Figure 7A.2 Annexure 3. Annexure 6
8) PP to Submit Parking area statement as per DCR.	Parking area statement as per DCR	Parking Area Statement as per DCR are included in Chapter 2, Section 2.5, Table No. 2.8, 2.9 Annexure 7
9) PP to Submit Cross section of basement showing width and slope of ramp.	Cross section of basement	Not Applicable

10) PP to Submit Details of basement parking.	Basement parking	Not Applicable
11) PP Proposes 2 Nos. of basements in each building; its design with ventilation details, contingency plan of basement as well as details of dewatering in basements.	Basements in each building; its design with ventilation details, contingency plan of basement as well as details of dewatering in basements.	Not Applicable
12) PP to Prepare consolidated report on traffic and vehicular pollution as a single chapter in EIA.	Traffic and vehicular pollution	Prepare consolidated report on traffic and vehicular pollution in Chapter 7A Annexure 3
13) PP to carry out fugitive dust monitoring by using local meteorological data.	Fugitive dust monitoring by using local meteorological data.	Fugitive dust monitoring is included in Chapter 3, 4, Section 3.10, 4.3.3 Table No. 3.12 Annexure 8
14) 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.	Waste management plan details	Details of Waste Management Plan are included in Chapter 9, Section 9.7.1, 9.7.2, 9.7.3, 9.7.4, 9.7.5 Table No. 9.3, 9.4, 9.5, 9.6, 9.7, Figure 9.4, 9.5, 9.6, 9.7, 9.8 Annexure 9
15) PP to submit detail debris management plan; PP should not remove the debris haphazardly & dump it on road side.	Debris management plan	Debris Management Plan is in Chapter 2, Section 2.7.3.1 Annexure 10
16) PP to submit disaster management plan.	Disaster Management Plan	Disaster Management Plan is provided in Chapter 7, Section 7.2 Annexure 11
17) PP to submit socio-economic infrastructure details including public transport arrangements on the site; PP to mention details of socio-economic in EIA.	Socio-economic infrastruc Public transport arrangements on the site; details of socio-economic in EIA.	Details of Socio-economic Infrastructure are given in Chapter 3, Section 3.13 Table No. 3.24, 3.25. Annexure 12

18) 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.	Required amenities within layout as per the planning standards if the existing amenities	The proposed activity is Dry Port & as per requirement adequate amenities provided within the layout. Figure 2.10 Annexure 13
19) PP to submit phase wise development plan considering wind rose diagram.	Development plan considering wind rose diagram	The proposed activity is Dry Port & it will be developed as per the guidelines by sanctioning authority.
20) 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.	a) CFO NOC, b) Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.	All the NOC's are in process
21) 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.	Design details of water treatment plant	Design details of water treatment plant are given in Chapter 2, 4, Section 2.7, 2.7.2, 4.6 Figure No. 9.1 Annexure 14
22) PP to submit internal storm water drain and sewer line arrangements up to final disposal point.	Internal storm water drain and sewer line arrangements	Internal storm water drain and sewer line arrangements up to final disposal point are mentioned in Chapter 2, 10, Section 2.7.2, 10.8 Annexure 15
23) 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	Details of design of all STP's	Design of all STP's are given in Chapter 2, 4, Section 2.7.1.1, 2.7.9.3, 4.6.1 Figure 2.12 Annexure 16
24) PP to submit details hydro geological survey report with graphs & data.	Hydro-geological survey report with graphs & data.	Details hydro geological survey report are in Chapter 3, Section 3.5, 3.6 Figure 3.7 Annexure 17
25) PP to identify sources of air pollution, PP to include mitigation measures to reduce Air pollution/Noise pollution.	Sources of air pollution, mitigation measures to reduce Air pollution/Noise pollution.	Sources of Air Pollution are industries, open stacking, etc. are given in Chapter 3, 4, 9, Section 3.10.3, 4.3.2, 9.3, 9.4 Annexure 18

26) PP to provide mandatory RG area on virgin land and submit the drawing with calculations.	RG area on virgin land and submit the drawing with calculations.	RG area is mentioned in Chapter 2, 9, Section 2.3.7.4, 9.8.4 Table 2.8, 9.8, 9.9 Annexure 19
27) PP to submit layout showing natural water courses on site; PP to submit total runoff calculation before and after development.	Layout showing natural water courses on site.	Layout showing natural water courses on site are given in Chapter 2, Section 2.7.2 Annexure 20
28) 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.	Gate mass balance analysis	Gate mass balance analysis for environmental parameters is included in Chapter 2, Section 2.7.3, 2.7.3.1 Table 2.18, 2.19 Annexure 21
29) PP to explore possibility to install air monitoring station on site during construction as well as operation phase for ambient air quality monitoring.	Install air monitoring station on site during construction as well as operation phase	Ambient air quality monitoring station to be installed. Chapter 9, Section 9.3 Annexure 22
30) PP to submit undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.	Undertaking of DG set backup to all Pollution Control Devices, Water Supply, Emergency Services	Undertaking to provide DG set backup is attached in Chapter 12, Annexure -10 Annexure 23
31) 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.	Plant trees which help to increase biodiversity in the premises like fruit bearing trees, etc.	Increase biodiversity in the premises are mentioned in Chapter 3, 9, Section 3.12.5, 3.12.6, 3.12.7, 3.12.8, 9.8.4 Annexure 24
32) PP to include condition of “maintenance of all Pollution Control Equipment’s and functioning of Environment Monitoring Cell.	“Maintenance of all Pollution Control Equipment’s	Maintenance and Control of Equipment’s are given in Chapter 6 Annexure 25

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Total Plot Area (m2)	1400000
Deductions (m2)	
Net Plot area (m2)	14,00,000
Proposed FSI area (m2)	57910
Proposed non-FSI area (m2)	
Proposed TBUA (m2)	57910
TBUA (m2) approved	Date of Approval: 15-01-2018
Ground coverage (m2) & %	4
Total Project Cost (Rs.)	4770000000

Details of Building Configuration:

Sr	Building Name & number	Number of floors	Height (m)
1	Inland Container Depot (ICD)	G+1	12
2	Container Yard (CY)	G	4.5
3	Warehouse (WH)	G	12
4	LIQUID	G+1	9
5	Processing Area/ Warehousing Space	G+1	9
6	Cold Storage	G+1	9
7	Truck Terminal (TT)	G	6
8	Railway Siding		
9	RTG Workshop	G+1	12
10	Railway Workshop	G+1	12
11	Transit Loading/Unloading		
12	Administration	G+1	12
13	Commercial	G+1	12
14	Utility		
15	Fuel	G	9
16	Fuel	G	9

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

DECISION OF SEAC

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 sub

During discussion following points emerged:

1. PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF & CC circular dated 1/05/2018 along with details of fund utilization & agreement or consent of executor.

2. PP to submit detailed disaster management plan incorporating lightening arrester plan.

3. PP to submit plan showing internal road along with width of road.

4. The entire road network shall have access to fire fighting and fire drive way with minimum 6 m clear width. PP to submit a large scale drawing.

5. PP to submit detailed traffic impact assessment.

6. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per car as per norms.

7. Parking for heavy vehicles and turnaround areas including the truck terminal if any shall be separately shown in the layout and other facilities for drive ways etc. shall be indicated.

8. PP to submit details of FSI and non-FSI areas.

9. PP has stated that they are the planning authority. PP to submit supporting document.

10. PP to submit master layout plan indicating only work proposed to be carried out and remaining area is to be shown as future development. PP also to indicate structures proposed.

11. PP to submit detailed drawing for internal storm water drain as well as sewer line up to final disposal point along with invert levels of last chambers within property and chambers of final disposal point.

12. PP to submit geo-hydrological report along with details of RWH pits separately for terrace water and surface water.

13. PP to submit phase wise programme for proposed construction with mitigation measures taken to avoid inconvenience to existing / nearby occupants.

14. PP to submit integrated waste management plan.

15. PP to submit energy saving calculations.

16. PP to provide expected traffic of trains per month / per year. Provide the details of diesel and electrical locomotives.

17. Considering all expected number of locomotives to be diesel locomotives, PP to estimate emission loads for particulate matter (PM), oxides of nitrogen (NOx), Hydrocarbons (HC), Carbon Monoxide (CO) and carbon dioxide (CO2) per year. Submit emission inventory also including vehicles operation in the area.

18. PP to carry out dispersion modelling for vehicular and locomotive emissions and provide GLC contours in 5 Km radius.

19. Noise generation expected due to operations including train movements, loading / unloading of containers shall be detailed through noise level modelling in nearby area and also provide expected levels of noise in abating villages / towns in daytime and night time.

20. PP to provide details of plan for storage considering the nature of materials as combustible, inflammable, hazardous etc.

21. PP to provide the details of any washing unit for train racks or containers, platforms (siding) and waste water generation details if any.

22. PP to provide mitigation plan for air pollution and noise pollution.

23. PP to provide carbon foot print calculations for entire project during construction and operation phase.

24. PP to provide details of electrical energy requirement for the project including energy for locomotives, operation of cold storage.

25. PP to provide details of storages including cold storage, liquid storage, fuel station etc. along with specific environmental management plan.

26. Safety permissions for fuel stations may be submitted.

27. PP to submit survival report of existing trees. PP to submit plantation / landscaping plan incorporating local native fruit bearing trees.

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

******

mit above information.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for Proposed Development of Dry Port (Inland Container Depot)

Is a Violation Case: No

1.Name of Project	Proposed Development of Dry Port (Inland Container Depot) at Javasgaon and Daregaon Villages in Jalna District, Maharashtra by JNPT
2.Type of institution	Government
3.Name of Project Proponent	Jawaharlal Nehru Port Trust
4.Name of Consultant	Sri Sai Manasa Nature Tech Private Limited
5.Type of project	Townships and Area Development 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	This is new Project
8.Location of the project	Survey Nos. 25 of Javasgaon and 318 of Daregaon Villages in Jalna District, Maharashtra
9.Taluka	Jalna
10.Village	Javasgaon & Daregaon
Correspondence Name:	Sri. S.V. Madabhavi, Chief Manager, PDD, JNPT
Room Number:	CM Chamber
Floor:	Second Floor
Building Name:	JNPT Administrative Building
Road/Street Name:	JNPT Road
Locality:	Sheva
City:	Uran
11.Whether in Corporation / Municipal / other area	Other Area
12.IOD/IOA/Concession/Plan Approval Number	This is not building Project-NA
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 87600
13.Note on the initiated work (If applicable)	DPR prepared for Development of Dry Port
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	This is not building Project-Not Applicable
15.Total Plot Area (sq. m.)	181.89 Hectare
16.Deductions	This is not building Project-Not Applicable
17.Net Plot area	181.89 Hectare
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** This is not building Project-Not Applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 181.89
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** This is not building Project-Not Applicable
	Approved Non FSI area (sq. m.): This is not building Project-Not Applicable
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	243100
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	13.37
21.Estimated cost of the project	5604700000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Custom Office	2 (G+2)	14.7
2	Office	2 (G+2)	14.7
3	Liquid Storage 1 & 2	1	5
4	Cold Storage 1 & 2	1	5
5	Commercial 1& 2	1	5
6	Utility	1	5

23.Number of tenants and shops	Not Applicable
24.Number of expected residents / users	447
25.Tenant density per hectare	Not Applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	The fire fighting facility is provided as per OISD norms and are automatic & monitored form adjoining towers.
29.Existing structure (s) if any	None
30.Details of the demolition with disposal (If applicable)	No demolition & waste generation

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Proposed project is a development of dry port	Not Applicable	Not Applicable	Not Applicable

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	918
	Recycled water - Flushing (CMD):	4
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	918
	Fire fighting - Underground water tank(CMD):	No underground Tank is proposed
	Fire fighting - Overhead water tank(CMD):	No overhead tank is proposed
	Excess treated water	Nil
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	918
	Recycled water - Flushing (CMD):	14
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	918
	Fire fighting - Underground water tank(CMD):	No underground Tank is proposed
	Fire fighting - Overhead water tank(CMD):	No overhead tank is proposed
	Excess treated water	Nil
Details of Swimming pool (If any)	Not applicable- Proposed project is a liquid Cargo Jetty.	

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	918	918	0	904	904	0	14	14

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	20 to 25 m below ground level
	Size and no of RWH tank(s) and Quantity:	1 No. 100 x 50 x 2 = 10000 m3
	Location of the RWH tank(s):	South corner of the proposed project area
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	Naturally available at site shall be used as a RWH pit
	Budgetary allocation (O & M cost) :	Nil
	Details of UGT tanks if any :	NOT APPLICABLE
35.Storm water drainage	**Natural water drainage pattern:**	South and east of the proposed project area
	Quantity of storm water:	2376.4 m3
	Size of SWD:	Width -1 m & Depth - 1.5 m (Average Depth)
Sewage and Waste water	**Sewage generation in KLD:**	14
	STP technology:	Waste water treatment using SBR Technology.
	Capacity of STP (CMD):	1 - 25 KLD
	Location & area of the STP:	South corner of the proposed project area. Will be provide in EIA.
	Budgetary allocation (Capital cost):	14290000
	Budgetary allocation (O & M cost):	500000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	None
	Disposal of the construction waste debris:	Not Applicable
Waste generation in the operation Phase:	**Dry waste:**	36 kg/day
	Wet waste:	72 kg/day
	Hazardous waste:	None
	Biomedical waste (If applicable):	None
	STP Sludge (Dry sludge):	1.5 kg/day
	Others if any:	None

Mode of Disposal of waste:	**Dry waste:**	Recyclable
	Wet waste:	Composting
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Shall be used as a manure for greenbelt
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Not Applicable
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not applicable
	O & M cost:	Not Applicable

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	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	None	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	Diesel 240 lph	1	18.9	0.5	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	None	NA	NA	NA
41.Source of Fuel		NA		
42.Mode of Transportation of fuel to site		NA		

43.Green Belt Development	**Total RG area :**	18.32 Hectare
	No of trees to be cut :	None
	Number of trees to be planted :	21790
	List of proposed native trees :	Neem, Karanj, Teak, Arjun, Tut, Jamun, Peepal, Bamboo, Kadamb, Shisam, Mahua etc.
	Timeline for completion of plantation :	5 Year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Details given in EMP	Details given in EMP	Details given in EMP	Details given in EMP
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	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSTCL, Maharashtra Govt.
	During Construction Phase: (Demand Load)	Construction phase power supply will be met by DG sets. 2000 KVA
	DG set as Power back-up during construction phase	None
	During Operation phase (Connected load):	214 MVA
	During Operation phase (Demand load):	214 MVA
	Transformer:	214 MVA
	DG set as Power back-up during operation phase:	2 x 1000 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Two high tension lines are passing through the proposed project area

48.Energy saving by non-conventional method:

Southern edge of each plot will have solar panel to harness solar energy. Also, building roofs have photovoltaic solar panels as a energy saving by non conventional method.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Yes, detail will give in EIA report	Yes, detail will give in EIA report

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
2 x 1000 KVA DG Set	Not Applicable	Available latest technology will be used

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Detail will give in EIA report
	O & M cost:	Detail will give in EIA report

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Construction	Construction of STP & STP conveying pipelines and other environmental related works	18000000

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Dust Suppression on internal approach roads and site connecting road	Water tankers will be used	Not Applicable	5.0
2	Sewage Treatment Plant	Operation and Maintenance	142.9	5.0
3	Greenbelt Development	Leveling and developing	18.0	10.0
4	Environmental Monitoring	Monitoring of Environmental parameters	Not Applicable	4.0
5	Site Housekeeping	Housekeeping of proposed project area	Not Applicable	11.52
6	Miscellaneous Environmental Works	Environmental related works	20.0	5.0

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
None	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 - Existing single lane road is connecting to Jalna-Aurangabad SH 30 at a distance of 4 km.
Parking details:	**Number and area of basement:**	NOT APPLICABLE
	Number and area of podia:	NOT APPLICABLE
	Total Parking area:	642000
	Area per car:	Details are given in EMP under heading parking area statement
	Area per car:	Details are given in EMP under heading parking area statement
	Number of 2-Wheelers as approved by competent authority:	Details are given in EMP under heading parking area statement
	Number of 4-Wheelers as approved by competent authority:	Details are given in EMP under heading parking area statement
	Public Transport:	Details are given in EMP under heading parking area statement
	Width of all Internal roads (m):	30 & 20
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No protected area is falling in 10 km radius of the proposed project site
	Category as per schedule of EIA Notification sheet	8(b) - Township and Area Development Project
	Court cases pending if any	No
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Total Plot Area (m2)	1818900 (181.89 Ha.)
Deductions (m2)	
Net Plot area (m2)	1818900 (181.89 Ha.)
Proposed FSI area (m2)	69225
Proposed non-FSI area (m2)	
Proposed TBUA (m2)	69225
TBUA (m2) approved by Planning Authority till date	69225
Ground coverage (m2) & %	202600 m2 & 11.14 %
Total Project Cost (Rs.)	Rs. 400.92 Crores

Proposed Configuration:

Building Name	Configuration	Height (m)
Inland Container Depot (ICD)	G + 1	12
Container Yard (CY)	G	4.5
Warehouse	G	12
Liquid Storage Area	G + 1	9
Processing Area/ Warehousing Space (PA/WS)	G + 1	9
Cold Storage	G + 1	9
Truck Terminal (TT)	G	6
RTG Workshop	G + 1	12
Railway Workshop	G + 1	12
Administration Office	G + 1	12
Commercial	G + 1	12
Fuel Station Building	G	9

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF & CC circular dated 1/05/2018 along with details of fund utilization & agreement or consent of executor.

2. PP to submit detailed disaster management plan incorporating lightening arrester plan.

3. PP to submit plan showing internal road along with width of road.

4. The entire road network shall have access to fire fighting and fire drive way with minimum 6 m clear width. PP to submit a large scale drawing.

5. PP to submit detailed traffic impact assessment.

6. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per car as per norms.

7. Parking for heavy vehicles and turnaround areas including the truck terminal if any shall be separately shown in the layout and other facilities for drive ways etc. shall be indicated.

8. PP to submit details of FSI and non-FSI areas.

9. PP has stated that they are the planning authority. PP to submit supporting document.

10. PP to submit master layout plan indicating only work proposed to be carried out and remaining area is to be shown as future development. PP also to indicate structures proposed.

11. PP to submit detailed drawing for internal storm water drain as well as sewer line up to final disposal point along with invert levels of last chambers within property and chambers of final disposal point.

12. PP to submit geo-hydrological report along with details of RWH pits separately for terrace water and surface water.

13. PP to submit phase wise programme for proposed construction with mitigation measures taken to avoid inconvenience to existing / nearby occupants.

14. PP to submit integrated waste management plan.

15. PP to submit energy saving calculations.

16. PP to provide expected traffic of trains per month / per year. Provide the details of diesel and electrical locomotives.

17. Considering all expected number of locomotives to be diesel locomotives, PP to estimate emission loads for particulate matter (PM), oxides of nitrogen (NOx), Hydrocarbons (HC), Carbon Monoxide (CO) and carbon dioxide (CO2) per year. Submit emission inventory also including vehicles operation in the area.

18. PP to carry out dispersion modelling for vehicular and locomotive emissions and provide GLC contours in 5 Km radius.

19. Noise generation expected due to operations including train movements, loading / unloading of containers shall be detailed through noise level modelling in nearby area and also provide expected levels of noise in abating villages / towns in daytime and night time.

20. PP to provide details of plan for storage considering the nature of materials as combustible, inflammable, hazardous etc.

21. PP to provide the details of any washing unit for train racks or containers, platforms (siding) and waste water generation details if any.

22. PP to provide mitigation plan for air pollution and noise pollution.

23. PP to provide carbon foot print calculations for entire project during construction and operation phase.

24. PP to provide details of electrical energy requirement for the project including energy for locomotives, operation of cold storage.

25. PP to provide details of storages including cold storage, liquid storage, fuel station etc. along with specific environmental management plan.

26. Safety permissions for fuel stations may be submitted.

27. PP to submit survival report of existing trees. PP to submit plantation / landscaping plan incorporating local native fruit bearing trees.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for Environment Clearance for Proposed Mixed use Development at S. No. 577/2, 577/3 at Bibewadi, Haveli Taluka, Pune by Jairaj Realty LLP/ Jairaj Realty unit 9, Pune

Is a Violation Case: No

1.Name of Project	Environment Clearance for Proposed Mixed use Development at S. No. 577/2, 577/3 at Bibewadi, Haveli Taluka, Pune by Jairaj Realty LLP/ Jairaj Realty unit 9, Pune
2.Type of institution	Private
3.Name of Project Proponent	Mr. Jayant Shah by Jairaj Realty LLP/ Jairaj Realty unit 9, Pune
4.Name of Consultant	VK:e Environmental LLP , Pune
5.Type of project	Mixed use project
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	Not Applicable
8.Location of the project	S. No. 577/2, 577/3
9.Taluka	Haveli
10.Village	Bibewadi
Correspondence Name:	Mr. Jayant Shah by Jairaj Realty LLP/ Jairaj Realty unit 9, Pune
Room Number:	759/34
Floor:	NA
Building Name:	NA
Road/Street Name:	Bhandarkar road
Locality:	Near PYC Deccan Gymkhana, Pune
City:	Pune
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number: 000
	Approved Built-up Area: 000
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.)	85,600 m2
16.Deductions	Deduction for road widening: 9320 sqm, Deduction for amenity: 11,442 sqm
17.Net Plot area	64,838.00 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 198080.09sq m
	b) Non FSI area (sq. m.): 217966.73 sq m
	c) Total BUA area (sq. m.): 416046.82
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 16-07-2019
19.Total ground coverage (m2)	27585 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	42
21.Estimated cost of the project	11265647144

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Tower 1 (Residential)	P+28 floors	87.0
2	Tower 2 (Residential)	P+28 floors	87.0
3	Retail Bazaar Building	2B+LG+UG&Bazaar+5 Retail Floor	26.90
4	Office block	2B + LG+UG+5 Retails Floor + 20 Floors	83.4
5	Hotel block	2B+2P+5 Restaurant floors+5 Hotel Floors	40.10
6	Parking Building 1	B+LG+UG+5 Retail Floors+6 Parking Floors	43.70
7	Parking Building 2	B+LG+UG+5 Retail Floors+6 Parking Floors	40.70
8	-	-	-
9	-	-	-
10	-	-	-
11	-	-	-

23.Number of tenants and shops	Residential: 326, Offices: 20, retail shops, Hotel: 110 rooms, Restaurant
24.Number of expected residents / users	Residential 1630 users , Commercial: Retail 15,840, hotel block & Restaurant users 1332, office 2255 users,
25.Tenant density per hectare	Tenant Density 2459.9 /hec. Tenement Density 190.42 / hec.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest fire station: Gangadham fire station Distance : 0.25 Km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	For easy access of fire tender 9m turning radius will be provided.
29.Existing structure (s) if any	Temporary structures exist on site.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	369
	Recycled water - Flushing (CMD):	322
	Recycled water - Gardening (CMD):	75
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	793
	Fire fighting - Underground water tank(CMD):	474
	Fire fighting - Overhead water tank(CMD):	70
	Excess treated water	187
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	396
	Recycled water - Flushing (CMD):	322
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	718
	Fire fighting - Underground water tank(CMD):	474
	Fire fighting - Overhead water tank(CMD):	70
	Excess treated water	262
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post monsoon 6.40 meter Pre monsoon 16.40 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	13 Nos. of recharge pits proposed
	Size of recharge pits :	Pit 2*2*2 meter Bore well 0.180 meter diameter and 60 meter depth silting chamber 1*1*1
	Budgetary allocation (Capital cost) :	9,75,000 /-
	Budgetary allocation (O & M cost) :	65,000 /-
	Details of UGT tanks if any :	Total UGT capacity including residential and commercial 475000 liter
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern: The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge pits.
	Quantity of storm water:	57.5656 cu m per minute
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	Total sewage generation 649
	STP technology:	MBBR
	Capacity of STP (CMD):	Total 3 STP's are proposed having total capacity of 650 kld
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	1,96,84,000 /-
	Budgetary allocation (O & M cost):	41,19,000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Dry waste (Kg/day): 40 kg/day -Wet waste (Kg/day): 60 kg/day –Total waste generated: 100 Kg/day
	Disposal of the construction waste debris:	The Construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling.
Waste generation in the operation Phase:	**Dry waste:**	3407 kg/day
	Wet waste:	2821
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	96.7 kg /day
	Others if any:	E-waste : 55kg/day

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be segregated into recyclable and non-recyclable waste. Non degradable waste will be handed over to “SwaCH” (Co-operative enterprise for waste collection. Dried sludge from STP will be used as manure
	Wet waste:	Biodegradable waste will be treated in Organic Waste Converter. Separate OWCs are proposed for different sectors and amenities.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge from STP will be used as manure.
	Others if any:	E-waste will be sent to authorized vendors.
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	220 sq.m
	Area for machinery:	220 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 66,75,000/-
	O & M cost:	Rs 15,27,777/-

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	NA
42.Mode of Transportation of fuel to site	NA

43.Green Belt Development	**Total RG area :**	7628 m2
	No of trees to be cut :	Few of the existing trees will be transplanted, other trees will be protected
	Number of trees to be planted :	995
	List of proposed native trees :	Refer Below list:
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygium cumini	Jambhul tree	50	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	50	A columnar, evergreen tree, grows well both dry and moist regions
3	Lagerstromia flos-regineae	Tamhan	35	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers, grows well in both dry and humid climate.
4	Pongamia pinnata	Karanj	50	Large tree good for stopping soil erosion along canal banks
5	Azadirachta indica	Neem	71	A medium to large size hardy tree which stand in drought conditions. Air Purifying quality. Attain a much larger size in dry regions
6	Cassia fistula	Bahava	40	Small deciduous tree. Excellent bright flowering tree for arid regions
7	Ficus benjamina	Weeping fig	38	Medium sized evergreen tree with elegant appearance and moderate water requirement.
8	Plumeria alba	Champa	55	Ornamental flowering tree
9	Michelia champaca	Sonchapha	45	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
10	Polyathia longifolia	Ashoka	40	Large evergreen tree. Effective in decreasing noise pollution
11	Mangifera indica	mango	60	Large evergreen and fruit bearing tree
12	Albizia lebeck	Shirish	48	Shady, large tree, ball shaped flowers
13	Psidium guajava	Guava, peru	63	Small hardy and birds attracting tree.
14	Jacaranda mimosifolia	Jacaranda	56	Medium size gracious deciduous, flowering tree which prefers moderate climate

15	Khaya senghalis	Khaya	45	Large roadside tree with white sweet scented flowers
16	Spathodia campanulata	Pichkari	50	A handsome large deciduous flowering tree. Good for roadside plantation
17	Bauhinia purpurea	Rakta Kanchan	45	Small hardy tree with beautiful pink flowers
18	Manilkara zapota	Chikoo	61	Small evergreen tree, fruit bearing common in gardens
19	Cocos nucifera	Coconut	45	Large palm, native to western ghats
20	Butea monosperma	Palas	48	Small deciduous, good for road side plantation
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	-	-	-
2	-	-	-
3	-	-	-
4	-	-	-
5	-	-	-
6	-	-	-
7	-	-	-
8	-	-	-
9	-	-	-
10	-	-	-

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (M.S.E.D.C.L.)
	During Construction Phase: (Demand Load)	235.67 KW
	DG set as Power back-up during construction phase	320 kvA
	During Operation phase (Connected load):	55563.71 KW
	During Operation phase (Demand load):	26741.70 kvA
	Transformer:	Residential: 630 Kva-2 nos. Office & Retail Block: 1000 Kva-7 nos. Hotel & Restaurant Block 1000 Kva-6 nos.
	DG set as Power back-up during operation phase:	Residential: 625 Kva-1no. Office & Retail Block: 1010 Kva-10 nos. Hotel Block Restaurant Block 1010 Kva-08 nos.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Total Energy Saving : 31 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saving	31%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1,0067,500/-
	O & M cost:	2,01,350/-

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	57.48
2	Land	Labour Camp toilets & sanitation	10.0
3	Health and Safety	Health checkup & Disinfection	2.25
4	Environment Management	Environment management cell	3.0

5	Environmental Monitoring	Environmental Monitoring	10.56

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	STP	196.84	41.19
2	Solid Waste Management	OWC	66.75	15.27
3	Landscaping	Development and Maintenance	34.10	3.41
4	Rain Water Harvesting	Rain Water Harvesting	13.0	1.3
5	Energy Saving	Solar PV panels	100.6	2.01
6	Environmental Monitoring	Environmental Monitoring	-	11.50

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Proposed site is located at Bibewadi. For internal traffic movement 6m wide driveway and 9 m turning radius is proposed.

Parking details:	**Number and area of basement:**	2 Nos., 46104 sq. m.
	Number and area of podia:	00
	Total Parking area:	114886.89 sqm
	Area per car:	12.5 sqm
	Area per car:	12.5 sqm
	Number of 2-Wheelers as approved by competent authority:	11659 Nos
	Number of 4-Wheelers as approved by competent authority:	4331 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	Width of all Internal roads: 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(b) Township and Area Development Project
	Court cases pending if any	NA
	Other Relevant Informations	Proposed Mixed use Development is loacetd at Bibewadi
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Total Plot Area (m2)	85,600.00 sqm	
Deductions (m2)	Deduction for road widening: 9320 sqm, Deduction for amenity: 11,442 sqm Total Deduction: 20,762 sqm	
Net Plot area (m2)	64,838.00 sqm	
Proposed FSI area (m2)	198080.09 sqm	
Proposed non-FSI area (m2)	217966.73 sqm	
Proposed TBUA (m2)	416046.82 sqm	
TBUA (m2) approved by Planning Authority till date	In process	
Ground coverage (m2) & %	27585 sqm (42% of the Net Plot Area)	
Total Project Cost (Rs.)	Rs. 1126,56,47,144/-	

Proposed Configuration

Building Name	Configuration	Height(m)
Tower 1 (Residential)	P+28 Floors	87.0
Tower 2 (Residential)	P+28 Floors	87.0
Retail Bazaar Building	2B+LG+UG&Bazaar+5 Retail Floor	26.90
Office Block	2B+LG+UG+5Retails Floor + 20 Floors	83.40
Hotel Block	2B+2P+5 Restaurant floors+ 5 Hotel floors	40.10
Parking Building 1	B+LG+UG+5 Retail floors+ 6 parking floors	43.70
Parking Building 2	B+LG+UG+5 Retail floors+ 6 parking floors	40.70

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit site specific, executable EMP encompassing monitoring matrix, Environment Cell and responsibility for execution.

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

******

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for environmental clearance is required as per EIA notification 2006, Further, as per the MoEF&CC circular dated 9th Jun., 15 a clarification was issued that in case of medical universities/institutes, the component of Hospitals will continue to require prior Environment Clearance.

Is a Violation Case: No

1.Name of Project	National institute of Naturopathy
2.Type of institution	Government
3.Name of Project Proponent	Ministry of Ayush, Govt of India
4.Name of Consultant	Grass root research and creation india Pvt Ltd, No, 374-375, F-block, sector-63, Noida, UP. NABET certification No. NABET/EIA/1619/RA0064 dated 04-12-2019
5.Type of project	8 (a) - Building and construction project as per EIA notification 2006. Environmental clearance is required for hospital projects.
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	Yewalewadi, Pune, Maharashtra
9.Taluka	Haveli
10.Village	Yewalewadi
Correspondence Name:	Dr. K. Satya Lakshmi, Director, National Institute of Naturopathy, Ministry of AYUSH.
Room Number:	NA
Floor:	NA
Building Name:	Bapu Bhavan
Road/Street Name:	Matoshree Ramabai Ambedkar Road
Locality:	Pune
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune municipal corporation
12.IOD/IOA/Concession/Plan Approval Number	All plans had been submitted to pune municipal corporation.
	IOD/IOA/Concession/Plan Approval Number: CC/2510/19
	Approved Built-up Area: 39295
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.)	1,01,318.83 m2
16.Deductions	427.52 m2 – Proposed D.P. road widening Area
17.Net Plot area	1,00,891.31
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 37,212.89
	b) Non FSI area (sq. m.): 2,082.49
	c) Total BUA area (sq. m.): 39295
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 37,212.89
	Approved Non FSI area (sq. m.): 2,082.49
	Date of Approval: 18-01-2020
19.Total ground coverage (m2)	21,085.35
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21%
21.Estimated cost of the project	170.29

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Hospital Building	G+1	8.85
2	Academic Building	G+2	12.60
3	Auditorium	G+1	6.80
4	Hostel Area (Girls & Boys)	G+1	6.60
5	Diet Center & Administrative Block	G+1	8.60
6	Residential Type - II	G+3	12.60
7	Yoga Hall	Ground floor	4.7
8	Common Mess	G+1	5.95
9	Living Gandhi Memorial Hall	Ground floor	4.70
10	Cottages & VIP Cottages	Ground floor	3.55
11	Residential Type - III	G+3	12.60
12	Residential Type - IV	G+3	12.60
13	Residential Type - V	G+1	6.60

23.Number of tenants and shops	34 units from Residential Block, 10 units from VIP cottages
24.Number of expected residents / users	Total = 3,792 ; 3,307 persons are permanent users of all block and 485 persons as visitors of all areas.
25.Tenant density per hectare	1 unit 5 persons only from residential block, 1 unit 3 persons from VIP cottages.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	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	NA	NA	NA	NA

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	182
	Recycled water - Flushing (CMD):	119
	Recycled water - Gardening (CMD):	47
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	352
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	Hospital-10, Academic-10, Auditorium-25, Admin & diet Centre-10, Boys Hostel-5, Girls Hostel-5, Type-II-5, Type-III-5 & Type-IV-5
	Excess treated water	76
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	182
	Recycled water - Flushing (CMD):	119
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	352
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	Hospital-10, Academic-10, Auditorium-25, Admin & diet Centre-10, Boys Hostel-5, Girls Hostel-5, Type-II-5, Type-III-5 & Type-IV-5
	Excess treated water	170
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	0	182	182	0	40	40	0	142	142
Gardening	0	47	47	0	47	47	0	0	0
Domestic	0	282.5	282.5	0	32.5	32.5	0	250	250

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 20.25 m. to 28.75 m. BGL. (24.50 M. Average) Rainy Season – 4.00 m. to 10.00 BGL. (7.00 M. Average) Winter Season – 12.13 m. to 19.38 m. BGL. (15.75 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	Total 25 nos. (16 No. for roof top & 9 no. for surface run off.)
	Size of recharge pits :	Size of RWH pits: a) 2.50 m. X 2.50 m. X 1.75 m - with 6" dia. 55 to 60 m. deep bore well via 1 no. of 0.9 m. dia. 1 m. deep de-siltation chamber for roof top RWH & b) 2.50 m. X 2.50 m. X 1.75 m - with 6" dia. 55 to 60 m. deep bore well via 2 no. of 0.9 m. dia. 1 m. deep de-siltation chamber each pits and O & G trap for surface run off RWH.
	Budgetary allocation (Capital cost) :	31.25 lakhs
	Budgetary allocation (O & M cost) :	1.25 lakhs per year
	Details of UGT tanks if any :	450 KLD
35.Storm water drainage	**Natural water drainage pattern:**	450 KLD
	Quantity of storm water:	58,808.79 m3 / Year i.e. 1,176.18 m3 / Day considering 849.30 mm. average annual rain fall in 50 days.
	Size of SWD:	As per detailed section, calculation & design requirement.
Sewage and Waste water	**Sewage generation in KLD:**	250
	STP technology:	SBR TEchnology
	Capacity of STP (CMD):	1 no and 300 KLD capacity
	Location & area of the STP:	STP will be installed inside the project site
	Budgetary allocation (Capital cost):	92 lakhs
	Budgetary allocation (O & M cost):	15 lakhs per year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	39,752.0 cu.mt
	Disposal of the construction waste debris:	150 mm of top soil will be excavated and stored till construction process is over. This soil would be re-laid over the open ground for green areas, plantation, landscaping etc. And 37,326 cu.mt will be earth filling in building blocks and rest amount will be used for other levelling at our own site.
Waste generation in the operation Phase:	**Dry waste:**	696 kg/day
	Wet waste:	716 kg/day
	Hazardous waste:	5.75 kg/day
	Biomedical waste (If applicable):	94 kg/day
	STP Sludge (Dry sludge):	45 kg/day
	Others if any:	Total Municipal solid waste will be 1412 kg/day.

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handing over to authorized agency SWaCH COOPERATIVE
	Wet waste:	Wet waste will be treated in OWC, which is proposed at our project.
	Hazardous waste:	Hazardous waste will be handing over to authorized agency MEPL
	Biomedical waste (If applicable):	The Bio medical waste will be handing over to authorize agency PASSCO.
	STP Sludge (Dry sludge):	STP dry sludge will be used for horticulture purpose and used as a manure.
	Others if any:	E-waste – 9.75 kg/day
Area requirement:	**Location(s):**	As per project layout plan.
	Area for the storage of waste & other material:	14 m2
	Area for machinery:	44 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	16.75 lakhs
	O & M cost:	4.4 lakhs per year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	PH	NA	6.0-8.5	6.5-8.5	NA
2	BOD	mg/lit	250-350	<10	Not exceed 10
3	COD	mg/lit	750-800	<60	Not exceed 60
4	TSS	mg/lit	250-300	<10	Not exceed 10

Amount of effluent generation (CMD):	18 KLD
Capacity of the ETP:	25 KLD
Amount of treated effluent recycled :	0 KLD, but 16 KLD of treated effluent will be discharged to sewer line
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	ETP technology - Physico-Chemical Treatment
Disposal of the ETP sludge	ETP sludge will be handing over to authorized agency MEPL

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	5.75	kg/ day	0	5.75	5.75	Handing over to authorized agency MEPL

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 sets	200 liter/hour	2	6 meter above the nearest highest building.	0.412	536

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	NA	As per the requirement	As per the requirement
41.Source of Fuel		Fuel supplier or Dealer		
42.Mode of Transportation of fuel to site		HDPE containers or drums		

43.Green Belt Development	**Total RG area :**	15, 484.30 SQM
	No of trees to be cut :	97
	Number of trees to be planted :	71 (trees to be retained) + 2231 (trees to be planted) = 2302 nos.
	List of proposed native trees :	Acacia catechu/Acacia sundra, Albizzia procera, Alstonia scholaris, Bambox insigne, Calophyllum inophyllum, Dalbergia lanceolaria, Elaeocarpus sphaericus, Ficus amplissima
	Timeline for completion of plantation :	1-2 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	Manikara zapota	Chikoo	85 nos.	Tropical fruit tree & bird attracting tree
2	Michelia champaca	Champa	115 nos.	Evergreen timber plant, ornamental
3	Mimusopes elengi	Bakul	155 nos.	Evergreen tree, timber yielding and medicinal plant
4	Ficus benjamina	Weeping fig	90 nos.	Evergreen & bird attracting tree
5	Cassia fistula	Golden shower	170 nos.	Drought tolerant, ornamental & medicinal plant
6	Butea monosperma	Flame tree	134 nos.	Used in pesticide & dye preparation
7	Cassia grandis	Pink shower	110 nos.	Drought tolerant, ornamental & medicinal plant
8	Saraca indica	Sita ashok	173 nos.	Evergreen medicinal plant
9	Roystonea regia	Royal palm	95 nos.	Nitrogen fixer, ornamental plant
10	Syzygium cumini	Jambhul	90 nos.	Fruit tree & bird attracting
11	Neolamarkia cadamba	Kadamba tree	98 nos.	Tropical fruit tree & bird attracting tree
12	Mangifera indica	Mango tree	84 nos.	Evergreen & bird attracting tree
13	Pongamia pinnata	Karanj	154 nos.	Karanj is an important ayurvedic medicine
14	Phyllanthus officinalis	Awala	168 nos.	Evergreen medicinal and fruit plant
15	Psidium guajava	Peru	125 nos.	Fruit tree
16	Azadirachta Indica	Neem	210 nos.	Traditional medicinal Plant
17	Albizia lebbeck	Shirish	175 nos.	Evergreen timber plant, ornamental
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:			
Serial Number	**Name**	**C/C Distance**	**Area m2**
1	Duranta erecta	0.45m	667.34 sq. m.
2	Duranta repens	0.45m	667.34 sq. m.
3	Oleander pink	0.45m	667.34 sq. m.
4	Oleander red	0.45m	667.34 sq. m.
5	Oleander white	0.45m	667.34 sq. m.
6	Tecoma castanifolia	0.45m	667.34 sq. m.
7	Tagar miniature	0.45m	667.34 sq. m.
8	Tabernaemontana variegated	0.45m	667.34 sq. m.
9	Plumbago auriculata	0.45m	667.34 sq. m.
10	Cassia biflora	0.45m	667.34 sq. m.
11	Bouigainvellea glabra	0.45m	667.34 sq. m.
12	Golden trumpet	0.45m	667.34 sq. m.
13	Lagestromia indica	0.45m	667.34 sq. m.
14	Hamelia patens	0.45m	667.34 sq. m.
15	Tecoma stanse	0.45m	667.34 sq. m.
16	Acalypha wikesiana	0.45m	667.34 sq. m.
17	Cortaderia selloana	0.45m	667.34 sq. m.
18	Dianella australiana	0.45m	667.34 sq. m.
19	Tagetes erecta	0.45m	667.34 sq. m.
20	Tecoma capensis	0.45m	667.34 sq. m.
21	Galphimia glauca	0.45m	667.34 sq. m.
22	Revenia spectabilis	0.45m	667.34 sq. m.
23	Revenia spectabilis	0.45m	667.34 sq. m.
47.Energy			

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	46 KW
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	2926 KW
	During Operation phase (Demand load):	1761 KW
	Transformer:	1000 KVA - 2 Nos.Transformers
	DG set as Power back-up during operation phase:	160 KVA - 01 no. for Common Load & 750 KVA – 02 nos. for Project.
	Fuel used:	Fuel type – Disel 160 KVA - 30 - lit/hr, Stack Height - 5.22 m. 750 KVA - 132 - lit/hr, Stack Height – 8.47m.
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Measures to reduce energy consumption :
? High efficiency transformers, motors etc. has been proposed to reduce the losses.
? Electronic Ballasts and Energy efficient lamp source either triposphere or LED are proposed for common area & general lighting with automatic time based control to save power by switching ON & OFF the lights at appropriate time.
The estimated saving in common lighting consumption is up to 20 % due to adopting above measures.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Compliance with ECBC of BEE shall be ensured	Yes
2	Outdoor and common area lighting shall be LED	0.4%
3	CFL/LED for lighting the area outside of the building	0.4%
4	Solar panel installation	5%
5	Total of all Savings (per year)	140723 KWH / Annum (5.8 %)

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG sets	NA	Acoustic enclosure, stack should be kept as per the CPCB norms
Waste water	NA	STP should be installed-SBR technology
Effulent generation	NA	ETP shall be installed - Physico-Chemical Treatment
solid waste generation	NA	OWC
Non bio-degradable waste	NA	Dry waste handing over to SWACH COOPERATIVE. Bio medical waste handing over to PASCO. Hazardous waste handing over to MEPL.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	=92+16.75=108.75 lakhs
	O & M cost:	=15+4.4=19.4 lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Erosion Control	Dust control measures, barricading	Rs 2,00,000
2	Site safety	Safety nets, safety equipments	Rs 2,50,000
3	Site sanitation	Toilets and cleanliness for labourers	Rs 1,50,000
4	Disinfection and health checkups	monitoring of health of labourers and hygiene	Rs 1,00,000
5	Environmental monitoring	Air, water, soil monitoring	Rs 1,00,000

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Installation of 300 KLD capacity	92 lakhs	15 lakhs
2	ETP	Installation of 25 KLD capacity	12.6 Lakhs	1.62 lakhs
3	Green belt development	Plantation of trees and lawn	40 lakhs	10 lakhs
4	RWH pits	internal piping, pits	20 lakhs	32 thousand
5	Energy saving measures	Installation and operation	20 lakhs	0.4 lakhs
6	Solid waste management	Transportation and bins, covers, manpower etc.,	16.75 lakhs	4.4 thousand
7	Environmental monitoring	Air, water, soil, noise monitoring	2 lakhs	1 lakhs

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2
Parking details:	**Number and area of basement:**	0
	Number and area of podia:	0
	Total Parking area:	11860.25 sq.m
	Area per car:	25 sqm
	Area per car:	25 sqm
	Number of 2-Wheelers as approved by competent authority:	860
	Number of 4-Wheelers as approved by competent authority:	263
	Public Transport:	NA
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)-Building and construction project as per the EIA notification 2006
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	24-06-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-

Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance for total plot area of 101171.00 m2, FSI area of 36,957.55 m2, Non FSI area of 711.28 m2 and total BUA of 37668.83 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF & CC circular dated 1/05/2018 along with details of fund utilization & agreement or consent of executor.

2. PP to submit detailed disaster management plan incorporating lightening arrester plan.

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

******

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for "Bella Casa"

Is a Violation Case: No

1.Name of Project	"Bella Casa"
2.Type of institution	TOR
3.Name of Project Proponent	Shri Vinay Kalbhor of M/s. Rachana Life Spaces & Shri Nitin Bhanagay of Rachana Developers
4.Name of Consultant	Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	Residential and Commercial
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	Environmental clearance obtained vide letter SEIAA-EC-0000000296 dated May 14, 2018 for built-up area of 76236.72 m2
8.Location of the project	"Bella Casa" S. No.42/2, 42/43/44(P) & 43/1(P) of village - Sus, Taluka Mulshi, Dist.-Pune, State - Maharashtra.
9.Taluka	Mulshi
10.Village	Sus
Correspondence Name:	Shri Nitin Bhanagay
Room Number:	1229/B
Floor:	3rd floor
Building Name:	Rachana house
Road/Street Name:	FC road
Locality:	Deccan Gymkhana
City:	Pune
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Status: IOD approval in process with proposed FSI- 86,613.70 m2, Non FSI – 80,726.19 m2 & Total Built up = 1,67,339.89 m2
	IOD/IOA/Concession/Plan Approval Number: Last Plan approval No.CC: BMU/858/18-19 dated 11/12/2018.
	Approved Built-up Area: 62006.53
13.Note on the initiated work (If applicable)	Construction initiated on site as per the EC mentioned in Sr. No. 7 above
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	63,850.00 m2
16.Deductions	14,248.76 m2 (road and Amenity)
17.Net Plot area	49,601.24 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 86,613.70 m2
	b) Non FSI area (sq. m.): 80,726.19 m2
	c) Total BUA area (sq. m.): 167339.89
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 62,006.53 m2
	Approved Non FSI area (sq. m.): 60332.57 m2
	Date of Approval: 11-12-2018
19.Total ground coverage (m2)	16938.24 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	34% on net plot area.
21.Estimated cost of the project	2389800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	EXISTING	-	-
2	Building C + C-commercial	LG + UG +11	37.60
3	Building D & E	P +07	23.85
4	Building F	P+11	35.90
5	Building G	P+11	35.90
6	Building H	P+11	35.90
7	Building J	P+11	35.90
8	Building K	LG + UG +12	40.50
9	Building L	LG + UG +12	40.50
10	Building M	LG + UG +12	40.50
11	PROPOSED	-	-
12	Building A-	3P +16	55.99
13	Building B-& B Commercial	4P +15 & Gr + Mezz. Shops + 2P +15	55.95
14	Building N1 + N2	4P + 15	55.95
15	Building O	4P + 15	55.95
16	Building Q	P +06	20.70
17	Bungalow	P +02	9.10
18	Commercial 1	P + Gr. + 03	14.85
19	Commercial 2	P+1st +2nd + 3P +12	55.99

23.Number of tenants and shops	Residential Tenements =1027 + 7 shops in C building. +5 shops in B building.+ Commercial-1 building 10 shops & 27 Offices + Commercial-2 building 2 show rooms and 48 offices. Proposed Commercial Bldg. – 12 shops & 11 Offices
24.Number of expected residents / users	6901Nos.
25.Tenant density per hectare	135 Tenement /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)	6.0 m wide internal driveway and 30 m wide access road (Nearest Fire Station at Pashan 4.6 km away).
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	As per earlier EC Building C, D + E, F, G, H, J, K, L, M and Club House 2 & 3 are completed. Total construction Built up approved area = 76,236.72 m2

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**	PMRDA
	Fresh water (CMD):	512
	Recycled water - Flushing (CMD):	269
	Recycled water - Gardening (CMD):	48
	Swimming pool make up (Cum):	09
	Total Water Requirement (CMD) :	838
	Fire fighting - Underground water tank(CMD):	300000 Ltr. Existing + 50000 Ltr for Commercial1+200000 Ltr for Commercial2 & 300000 Ltr for proposed Residential Buildings or as per Provisional Fire NOC
	Fire fighting - Overhead water tank(CMD):	180000 Ltr. Existing + 120000 Ltr For proposed Buildings.
	Excess treated water	316 m3/day
Wet season:	**Source of water**	PMRDA
	Fresh water (CMD):	512
	Recycled water - Flushing (CMD):	269
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	09
	Total Water Requirement (CMD) :	790
	Fire fighting - Underground water tank(CMD):	300000 Ltr. Existing + 50000 Ltr for Commercial1+200000 Ltr for Commercial2 & 300000 Ltr for proposed Residential Buildings or as per Provisional Fire NOC
	Fire fighting - Overhead water tank(CMD):	180000 Ltr. Existing + 120000 Ltr For proposed Buildings.
	Excess treated water	364 m3/day
Details of Swimming pool (If any)	Kids Pool :2.40 x 3.0 m Main Pool: Existing 9.15 m x 18.66 m & proposed 6.32 x 15.82	

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	290	222	512	29	22	51	261	200	461
Domestic	147	122	269	15	12	27	132	110	242
Gardening	35	13	48	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Below 15 Mtr.
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	Existing 8 + Proposed 6 =14 Nos.
	Size of recharge pits :	8 Nos. 1.50mx3.0mx1.50m & 6 nos. 2.0mx2.0mx2.0m.
	Budgetary allocation (Capital cost) :	Rs.6.30 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.60 Lakhs /annum
	Details of UGT tanks if any :	•Domestic UG tank Capacity: 650 m3 •Flushing water tank: 403 m3 •Raw Water Tank :162 m3
35.Storm water drainage	**Natural water drainage pattern:**	Slope from East to West
	Quantity of storm water:	1.26 m3/ Sec.
	Size of SWD:	External :– 900 mm, Internal :– 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	703 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	Total 4 Nos. (Existing: 1 NO. 285 m3/day) + (Proposed: 1 No. 08 m3/day +1 No. 55m3/day + 1 No. 355 m3/day.) And Existing 70 m3/day (will be merged with 355 KLD STP)
	Location & area of the STP:	On ground, Total Area is 379.80 m2 Existing: 285 m3/day= 116.40 m2, 70 m3/day=52.50 m2 Proposed: 08 m3/day = 38.40 m2, 55m3/day=42.50 m2, 355 m3/day=130 m2
	Budgetary allocation (Capital cost):	Total : Rs. 176.78 Lakhs (Existing: 285 m3/day & 70 m3/day = Rs.54.18 Lakhs), (Proposed: 08 m3/day = Rs. 10.60 Lakhs 55 m3/day=Rs. 24.00 Lakhs, 355 m3/day=Rs. 88.00 Lakhs)
	Budgetary allocation (O & M cost):	Total : Rs. 40.97 Lakhs/annum (Existing: 285 m3/day & 70 m3/day = Rs. 13.40 Lakhs/annum) , (Proposed: 08 m3/day = Rs. 4.92 Lakhs/annum 55m3/day=Rs. 6.95 Lakhs,/annum 355 m3/day=Rs. 15.70 Lakhs/annum)

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Phase -80 No's labours , Biodegradable waste: 14 kg/day, Non-Biodegradable waste: 22 kg/ day ,Excavation Quantity 4072.42 m3 ,Reused for Filling 4227.31 m3
	Disposal of the construction waste debris:	The maximum construction waste will be used within the site for leveling purpose and base course preparation of internal approach roads.
Waste generation in the operation Phase:	**Dry waste:**	Biodegradable waste: 1716 kg/day
	Wet waste:	Non-Biodegradable waste: 1267 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	35 kg/day
	Others if any:	E-waste: 4096 KG/YEAR
Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized vendor for further handling & disposal purpose
	Wet waste:	Wet waste will be treated in onsite organic waste converter machines.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	E waste Handed over to authorized recyclers for further handling & disposal purpose
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	31.50 m2
	Area for machinery:	For Machinery 96.50 m2, Total area- 128 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 46.50 Lakhs
	O & M cost:	Rs. 9.08 Lakhs/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1 No. 160 KVA+1 No.125 KVA+1 No. 82.50 KVA + Proposed 1 No. 180 KVA & 1 No. 82.5 KVA &1 No. 25 KVA	30+23+16 = 69 lit/hr. for Existing 32+16+5= 53 lit/hr. for proposed	6	4.5 m	0.10	450 oC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	69 lit/hr.	53 lit/hr.	122 lit/hr.
41.Source of Fuel		Local Dealer		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	5835.44 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	Existing 452 Nos. + Proposed 286 nos.
	List of proposed native trees :	Refer Below list:
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Existing	-	-	-
2	Michelia champaca	Sonchafa	71	Evergreen tree with yellow fragrant flowers
3	Mimusopes eleng	Bakul	119	Evergreen tree with small white fragrant flowers
4	Ficus benjamina	Weeping Fig	91	Widely spread, highly branching evergreen tree
5	Roystonia regia	Royal Palm	121	Ornamental Plant
6	Alastonia scholaris	Saptparni	18	Evergreen tropical tree
7	Spathodia campanulata	African Tulip Tree	32	Orange flowering tropical tree
8	Proposed	-	-	-
9	Manikara zapota	Chikoo	61	Tropical fruit tree & bird attracting tree
10	Michelia champaca	Champa	22	Evergreen timber plant, ornamental

11	Mimusopes elengii	Bakul	2	Evergreen tree, timber yielding and medicinal plant
12	Ficus benjamina	Weeping Fig	15	Evergreen & bird attracting tree
13	Cassia fistula	Golden Shower	27	Drought tolerant, ornamental & medicinal plant
14	Butea monosperma	Flame Tree	22	Used in pesticide & dye preparation
15	Ficus benghalensis	Wad	1	Evergreen tree with large canopy and small red fruits
16	Ficus religiosa	Pimpal	1	Evergreen tree with large canopy
17	Roystonia regia	Royal Palm	28	Fruit tree & bird attracting
18	Syzygiam cumini	Jambhul	41	Tropical fruit tree & bird attracting tree
19	Neolamarkia cadamba	Kadamba Tree	15	Evergreen & bird attracting tree
20	Mangifera indica	Mango Tree	1	Fruit tree & bird attracting
21	Albizia lebbeck	Shirish	17	Medicinal tree with small leaves
22	Azadirachta indica	Neem	11	Natural herb known for its pesticidal and insecticidal properties
23	Caryota Mitis	Fishtail Palm	22	Ornamental 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	Not applicable	Not applicable	Not applicable

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL.
	During Construction Phase: (Demand Load)	20 KW
	DG set as Power back-up during construction phase	25.0 KVA
	During Operation phase (Connected load):	6338.82 kW
	During Operation phase (Demand load):	3519.21 kVA
	Transformer:	Existing Total 4 Nos. (3 Nos. 630 KVA +1 No. 200 KVA) , Proposed Total 4 Nos. (3 Nos. 630 KVA and 1 No. 315 KVA) Total: 8 Nos.
	DG set as Power back-up during operation phase:	EXISTING 3 Nos.(1 No. 160 KVA+1 No.125 KVA+1 No. 82.50 KVA) + PROPOSED 3 Nos. (1 No. 180 KVA & 1 No. 82.5 KVA & 1 no. 25 KVA) TOTAL 6 Nos.
	Fuel used:	122 lit./hr. @ 75 % Load , Stack Height- 4.5 m above bldg.
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Total Energy saving by using energy saving measures
Using LED lights instead of T8 fluorescent lights
VFD's on Lifts
BEE star rated Equipment
Using High efficient pump
solar pv Panel
Solar Hot water

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Common Area Lighting using LED Lights	Existing-- 35332.00 KWH + Proposed-24057.88 kWH
2	Landscape Area Lighting using LED Lights	Existing-1518.40 KWH + Proposed- 949 kWH
3	Street Lighting using LED Lights & Timer	Existing- 7708.80 KWH +Proposed- 4818.00 kWH
4	Energy saving by Geyser	Existing- 272289.000 KWH +Proposed- 297600.00 kWH
5	Solar PV	Existing- 00 + Proposed- 49600 kWH
6	Total Energy saving by using energy saving measures-	Existing- 8331.78 kWH (9.44%) + Proposed 9616.20 kWH (9.70%)

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste Water	STP - 1 No. 285m3/day, 70 m3/day (will be merged with 355 m3/day STP))	1 No. 08 m3/day +1 No. 55 m3/day + 1 No. 355 m3/day.
Soild Waste	OWC - 1 No. 1000 Kg/Day Capacity	1 NO. of 750 Kg/ day Capacity

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 106.93 Lakhs
	O & M cost:	Rs. 2.15 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control – dust suppression measures, barricading & Monitoring and Testing	Rs. 1.08 Lakhs
2	Water Environment	Tanker for construction work , Water Testing , Drinking water for construction labours	Rs.3.70Lakhs
3	Land Environment	Labour toilets & sanitation	Rs.3.00 Lakhs
4	Biological Environment	Top Soil Preservation	Rs.6.8 Lakhs
5	Socio- Economic Environment	DDisinfection- Pest Control, First Aid Facilities, Health Check Up	Rs. 3.00 Lakhs

6	Safety Training	Personal Protective Equipment , For contractors and labours	Rs. 1.70 Lakhs
7	Environment Management	Environment management cell	Rs.1.00 Lakhs

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	STP -MBBR Technology	176.78 (Completed - 54.18 + Proposed-122.60)	40.97 (Completed - 13.40+ Proposed-27.57)
2	Solid Waste Management	OWC	46.50 (Completed 25.75 + Proposed-20.75)	9.08 (Completed - 4.77 + Proposed-4.31)
3	Landscaping	Development and Maintenance	68.18(Completed - 46.62 + Proposed-21.56))	7.56 (Completed - 5.17 + Proposed-2.39)
4	Rain Water Harvesting	Recharge Pits	6.30 (Completed - 3.60 + Proposed-2.70))	0.60 (Completed - 0.35 + Proposed-0.25)
5	Energy Saving	Energy saving measures	106.93 (Completed - 36.89 + Proposed-70.04)	2.15 (Completed - 0.75 + Proposed-1.4)
6	Swimming Pool	Swimming Pool	54.75 ((Completed - 27.15 + Proposed-27.60)	5.00 (Completed - 2.65 + Proposed-2.35)
7	Lightening Arrestor	Lightening Arrestor 10- Nos.	1.20	0.01
8	Environmental Monitoring	Environmental Monitoring	00	12.42 (Completed - 5.65 + Proposed-6.77)

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:	One Main Junction from Site to Main Road

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	03 No's
	Total Parking area:	26949.60 m2
	Area per car:	Covered 30.00 m2 and Open 25 m2 with drive way
	Area per car:	Covered 30.00 m2 and Open 25 m2 with drive way
	Number of 2-Wheelers as approved by competent authority:	1836 Nos.
	Number of 4-Wheelers as approved by competent authority:	701 Nos.
	Public Transport:	local transport facility
	Width of all Internal roads (m):	6 m. wide internal road and 9 m. turning radius will be provided.
	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) B1 Building & Construction Project
	Court cases pending if any	Not any
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	14-10-2019

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
3 -Name of Project proponent-	Shri Nitin Bhanagay	Shri Nitin Bhanagay for Rachana Life Spaces & Rachana Developers (Joint Development)
11- Whether in corporation/Municipal/other area	Pune Minicipal Corporation (PMC)	PMRDA
21-Estimated cost of the project	2576700000	2389800000
22-No. of buildings & its configuration	Building N	Building N1+N2

29-Existing structure if any	As per earlier EC Building C, D &E, F, G, H, J, K, L, M and Club House 2 & 3 are completed. Total construction Built up approved area = 76,236.72 m2	As per earlier EC Building C, D &E, F, G, H, J, K, L, M and Club House 2 & 3 are completed. Total construction Built up approved area = 76,005.21 m2
35-Storm water drainage	Qty. of storm water= 1.26 m3/sec.	ncremental Ruoff Qty. of storm water= 0.46 m3/sec.
37-Solid waste management	Area requirement= 122 m2	Total Area requirement= 128 m2 with machinery
48-Energy	DG set as power back up during operationsl phase: EXISITNG 3 Nos. +PROPOSED 1 No. 180 KVA & 1 No. 82.5 KVA & 1 no. 25 KVA	DG set as power back up during operationsl phase:Existing - 1 No. 160 KVA+1 No.125 KVA+1 No. 82.50 KVA and proposed 1 No. 180 KVA & 1 No. 82.5 KVA &1 No. 25 KVA

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating details below:

Total Plot Area (m2)	63,850.00
Deductions (m2)	14,248.76 m^2 (road and Amenity)
Net Plot area (m2)	49,601.24 m^2
Proposed FSI area (m2)	86,613.70 m^2
Proposed non-FSI area (m2)	80,726.19 m^2
Proposed TBUA (m2)	1,67,339.89 m^2
TBUA (m2) approved by Planning Authority till date	1,67,339.89 m^2 as per IOD.
Ground coverage (m2) & %	16,938.24 m^2 (34%)
Total Project Cost (Rs.)	Rs. 106.40 Crores (Completed: Rs. 132.58 Cr. +Proposed Rs.106.40 Crores & Total Project cost 238.98 Crore.)

Building (Existing)	Configuration	Height (m)	Building (Proposed)	Configuration	Height (m)
Building C + C-Commercial	LG + UG +11	37.60	Building A-	3P +16	55.99
Building D & E	P +07	23.85	Building B + B Commercial	4P +15 & Gr + Mezz. Shops +2P+15	55.95
Building F	P+11	35.90	Building N1+N2	4P + 15	55.95
Building G	P+11	35.90	Building O	4P + 15	55.95
Building H	P+11	35.90	Building Q	P +06	20.70
Building J	P+11	35.90	Bungalow	P +02	9.10
Building K	LG + UG +12	40.50	Commercial 1	P + Gr. + 03	14.85
Building L	LG + UG +12	40.50	Commercial 2	P+1st +2nd + 3P +12	55.99
Building M	LG + UG +12	40.50	Club House	P+2	10.80
Club House 2& 3	Gr./ G+1				

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

DECISION OF SEAC

During discussion following points emerged:

1. Noise levels at site are exceeding the norms for residential zone. PP to provide suitable mitigation measures.

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

******

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for Expansion of Proposed Residential & Commercial project " Sukhwani Panaroma" S. no. 85, Near Nissan Service center, Pashan Sus road, Pune by M/s. Sukhwani Life spaces.

Is a Violation Case: No

1.Name of Project	Expansion of Proposed Residential & Commercial project " Sukhwani Panaroma" S. no. 85, Near Nissan Service center, Pashan Sus road, Pune by M/s. Sukhwani Life spaces.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vicky Sukhwani
4.Name of Consultant	Ms. Sayali Jagtap (Approved EIA Coordinator)- J M Environet Pvt Ltd
5.Type of project	Residential & Commercial project.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Environment clearance letter vide no. SEAC-2013/CR-369/TC-2 dated 21st September, 2016.
8.Location of the project	S. no. 85, Near Nissan Service center, Pashan Sus road, Pune
9.Taluka	Haveli
10.Village	Sus
Correspondence Name:	Mr. Ajit Paranjape
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	S. no. 85, Near Nissan Service center, Pashan Sus road, Pune
City:	Pune
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: Received
	Approved Built-up Area: 46381.74
13.Note on the initiated work (If applicable)	Building C, D, club house , amenity building are completed as per earlier EC received
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	16600 sq. m
16.Deductions	3415.03 sq. m
17.Net Plot area	13184.97 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20907.26 sq. m
	b) Non FSI area (sq. m.): 25474.48 sq. m
	c) Total BUA area (sq. m.): 46381.74
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 20907.26 sq. m
	Approved Non FSI area (sq. m.): 25474.48 sq. m
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	4179.59 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	31.69 %
21.Estimated cost of the project	5257382

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	3 Parking + 12 floors	44.65 m
2	Building B	Parking + 14 floors	44.65 m
3	Building C	Parking + 12 floors	39.15 m
4	Building D	Parking + 12 floors	39.15 m
5	Amenity Building (Comm.)	LP+UG+5 floors	22.55 m
6	Club house	G + 1	8.07 m

23.Number of tenants and shops	Residential : 282 no's Amenity building (comm.)
24.Number of expected residents / users	Residential : 1410 Amenity building (comm.) : 406
25.Tenant density per hectare	176.25/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)	The project has access from existing 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	Building C, D, club house , amenity building are completed as per earlier EC received
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Sus Grampanchayat
	Fresh water (CMD):	135.02
	Recycled water - Flushing (CMD):	73.60
	Recycled water - Gardening (CMD):	11.24
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	219.86
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20 (each building)
	Excess treated water	84.14
Wet season:	**Source of water**	Sus Grampanchayat
	Fresh water (CMD):	135.02
	Recycled water - Flushing (CMD):	73.60
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	208.62
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20 (each building)
	Excess treated water	95.38
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 17.50 m. to 22.50 m. BGL. (20.00 M. Average) Rainy Season – 6.00 m. to 10.00 BGL. (8.00 M. Average) Winter Season – 11.75 m. to 16.25 m. BGL. (14.00 M. Average)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	Total 09 no's. (Existing 7 Nos. + Proposed 2 No.)
	Size of recharge pits :	Existing : 1.5 x 1.5 x 1.5 m Proposed : 2.0 m. X 2.0 m. X 1.75 m. Depth with 50 to 60 m. Deep 6" Dia. Bore Well via 2 No. of de-siltation pits of 0.9 m. Dia. 1.0 m. Deep
	Budgetary allocation (Capital cost) :	Rs. 11,25,000 /-
	Budgetary allocation (O & M cost) :	Rs. 1,00,000 /-
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 210 KLD Flushing tank Capacity(cum) : 84.54 KLD Fire UG tank Capacity (cum) : 200 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	17,689.93 m3 / Year i.e. 208.12 m3 / Day
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	187.76 KLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	STP 1 : 175 KLD (Residential) STP 2 : 17 KLD (Commercial
	Location & area of the STP:	Area – STP 1 : 100 sq. m STP 2 : 17.06 sq. m
	Budgetary allocation (Capital cost):	Rs. 22,40,000 /-
	Budgetary allocation (O & M cost):	Rs. 14,59,900 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Will be used within site
Waste generation in the operation Phase:	**Dry waste:**	342 kg/day
	Wet waste:	464 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	16.89 Kg/day
	Others if any:	E-waste : 3.04 kg/day

Mode of Disposal of waste:	**Dry waste:**	To SWACH
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	E-waste : To SWACH
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	56.5 sq. m
	Area for machinery:	Considered in above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 13,50,000
	O & M cost:	Rs. 3,00,840 /-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	RG area (10 %) : 1318.50 sq. m
	No of trees to be cut :	0
	Number of trees to be planted :	210 trees
	List of proposed native trees :	Provided below
	Timeline for completion of plantation :	Up to 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	Michalia champaka	Sonchafa	15	FRAGRANT, EVERGREEN, FLOWERING, SCENTED FLOWERS
2	Mimusops elengi	Bakul	23	FRAGRANR,EVERGREEN, SHADE GIVING
3	Cassia fistula	Bahawa	22	LEGUMINOUS & NITROGEN FIXING, DROUGHT RESISTANT.
4	Azardirachta indica	Neem	20	MEDICINAL IMPORTANCE, ODOUR RESISTANT, HABITAT FOR BIRDS
5	Plumeria alba	Franjipani	24	ORNAMENTAL & SCENTED FLOWERS
6	Anthocephallus cadamba	Kadamba	20	SHADY, LARGE DECIDUOUS TREE, FAST-GROWING GRACEFUL TREE, BALL SHAPED FLOWERS.
7	Saraca asoca	Sita Ashoka	10	SHADY TREE WITH RED-YELLOW FLOWERS
8	Mangifera indica	Mango	14	SHADY TREE, FRUIT BEARING COMMERCIAL VALUE
9	Bauhinia purpurea	Butterfly tree	27	SMALL TREE WITH SMALL WHITE FLOWERS, BUTTERFLY HOST PLANT
10	Lagerstromia Speciosa	Taman	6	CREATES SHADE, ATTRACTS BIRDS/BUTTERFLIES/BEES, GOOD FOR SCREENING
11	Artocarpus heterophyllus	Jackfruit	8	FRUIT BEARING, EVERGREEN, COMMERCIAL VALUE
12	Millingtonia hortensis	Indian cork tree	7	FRAGRANT, EVERGREEN, FLOWERING
13	Putranjiva Roxburghii	Puntranjiva	6	MEDICINAL TREE -MODERATE SIZED EVERGREEN -PENDANT BRANCHES
14	Pongamia Pinnata	karanj	8	FRAGRANT FLOWERS OR LEAVES -ATTRACTS BIRDS/BUTTERFLIES/BEES - DROUGHT TOLERANT
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)	6.6 KW
	DG set as Power back-up during construction phase	40 KVA
	During Operation phase (Connected load):	2152 KW
	During Operation phase (Demand load):	983 KW
	Transformer:	2 x 630 KVA
	DG set as Power back-up during operation phase:	125 KVA & 62.5 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. LED lighting for common areas
2. Using VFD
3. Solar hot water system
4. Solar PV panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED fixtures + VFD + Solar hot water+ Solar PV17.	16.47 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 37,22,000 /-
	O & M cost:	Rs. 1,86,000 /-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-

2	land	Site Sanitation	Rs. 26,500 /-
3	Health & safety	Site Safety	Rs.88,000 /-
4	Environment management	Environmental Monitoring	Rs. 1,20,000/-
5	Health & safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	2 STP	Rs. 22,40,000	Rs. 14,59,900 /-
2	Rain Water Harvesting	09 pits	Rs. 11,25,000 /-	Rs. 1,00,000 /-
3	Solid Waste Management	1 OWC	Rs. 13,50,000 /-	Rs. 3,00,840 /-
4	Green Belt Development	210 trees	Rs. 20,01,948/-	Rs. 1,61,105/-
5	Energy details	LED fixtures +solar	Rs. 37,22,000 /-	Rs. 1,86,000 /-
6	Environmental Monitoring	EMP costing	MoEFCC approved laboratory	Rs. 8,90,000 /-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project has access from existing road

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	1 podium
	Total Parking area:	5617.8 sq. m
	Area per car:	30 sq. m – for stilt/podium, 35 sq. m –for basement, 25 sq. m – for open parking.
	Area per car:	30 sq. m – for stilt/podium, 35 sq. m –for basement, 25 sq. m – for open parking.
	Number of 2-Wheelers as approved by competent authority:	Scooters : 467 , Cycles : 467
	Number of 4-Wheelers as approved by competent authority:	150
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 m & 9.00 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	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

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-

Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Total Plot Area (sq. m.)	16600 sq. m
Deductions	3415.03 sq. m
Net Plot area	13184.97 sq. m
Proposed Built-up Area (FSI & Non-FSI) (m^2)	46381.74 sq. m
FSI area (m^2)	20907.26 sq. m
Non FSI area (m^2)	25474.48 sq. m
Total built up area approved by planning authority	46381.74 sq. m
Total ground coverage (m^2)	4179.59 sq. m
Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	31.69 %
Estimated cost of the project (in Rs.)	Rs. 52,57,382 /-

Number of buildings & its configuration:

S. No.	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	3 Parking + 12 floors	44.65 m
2	Building B	Parking + 14 floors	44.65 m
3	Building C	Parking + 12 floors	39.15 m
4	Building D	Parking + 12 floors	39.15 m
5	Amenity Building (Comm.)	LP+UG+5 floors	22.55 m
6	Club house	G + 1	8.07 m

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

DECISION OF SEAC

During discussion following points emerged:

1. UGT shall be located at a suitable distance away from STP.

2. PP to submit phase wise program considering entry from existing road and not from proposed road.

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

******

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for Amendment for Environmental Clearance for the Proposed Modification / Expansion of IT Park project "Embassy Tech Zone" at Plot No. 03, Rajiv Gandhi Infotech Park, Phase II, MIDC, Hinjewadi, Pune, Maharashtra.

Is a Violation Case: No

1.Name of Project	Embassy Tech Zone
2.Type of institution	Private
3.Name of Project Proponent	Embassy Office Parks Pvt. Ltd.
4.Name of Consultant	Samrakshan
5.Type of project	IT Park
6.New project/expansion in existing project/modernization/diversification in existing project	Modification/expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental Clearance (EC) obtained from State Level Environment Impact Assessment Authority (SEIAA), Maharashtra vide letter No. SEAC-2010/CR.297/TC.2 dated 11.7.2011
8.Location of the project	"Embassy Tech Zone" at Plot No. 03, Rajiv Gandhi Infotech Park, Phase II, MIDC, Hinjewadi, Pune, Maharashtra.
9.Taluka	Hinjawadi
10.Village	Rajiv Gandhi Infotech Park, Phase II, MIDC
Correspondence Name:	M/s Embassy Office Parks Pvt. Ltd.,
Room Number:	No. 150
Floor:	Not applicable
Building Name:	Not applicable
Road/Street Name:	Infantry Road
Locality:	Not applicable
City:	Bengaluru - 560001
11.Whether in Corporation / Municipal / other area	MIDC area
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 489815
13.Note on the initiated work (If applicable)	Presently 8 blocks are under operation and 10 blocks are yet to be constructed
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	EC obtained - 2,76,874 sq m (68.43 acres) and Scenario after expansion - 2,72,979 sq m (67.47 area)
16.Deductions	None
17.Net Plot area	EC obtained - 2,76,874 sq m (68.43 acres) and Scenario after expansion - 2,72,979 sq m (67.47 area)
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** As per plan approval obtained from MIDC
	b) Non FSI area (sq. m.): As per plan approval obtained from MIDC
	c) Total BUA area (sq. m.): 490328
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** As per plan approval obtained from MIDC
	Approved Non FSI area (sq. m.): As per plan approval obtained from MIDC
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	76055
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	27.86
21.Estimated cost of the project	14350000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Block 1 (Office) - Existing	S1 + S2 + G + 5 Floors	29.10
2	Block 2 (Office) - Existing	S1 + S2 + G + 5 Floors	29.10
3	Block 3 (Office) - Existing	G + 10 Floors	41.25
4	Block 3 (MLCP 1) - Existing	G + 6 Floors	41.25
5	Block 4 (Office) - Proposed	9 Floors	38.55
6	Block 4 (MLCP 2) - Proposed	S1 + S2 + G + 3 Floors	38.55
7	Block 5 (Office) - Existing	LG + G + 8 Floors	37.50
8	Block 5 (MLCP 3) - Existing	LG + G + 5 Floors	37.50
9	Block 6 (Office) - Existing	G + 9 Floors	37.95
10	Block 7 (Office) - Proposed	S + G + 9 Floors	37.95
11	Block 8 (Office) - Proposed	S + G + 9 Floors	37.95
12	Block 9 (Office) - Proposed	G + 17 Floors	56.25
13	Block 10 (Office) - Proposed	G + 22 Floors	70.00
14	Block 11 (Office) - Existing	S + G + 7 Floors	33.15
15	MLCP 4 - Proposed	G + 6 Floors	29.70
16	MLCP 5 - Proposed	G + 10 Floors	29.70
17	Food Court - Existing	G + 2 Floors	13.5
18	Training center - Existing	G + 2 Floors	8.4

23.Number of tenants and shops	Occupancy Phase - 48,046 numbers after Modification and Expansion
24.Number of expected residents / users	Occupancy Phase - 48,046 numbers after Modification and Expansion
25.Tenant density per hectare	1778 numbers
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	20.0 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Provided as per MIDC Norms
29.Existing structure (s) if any	Presently 8 Office / MLCP buildings are in operation
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	IT Park	489815	513	490328

32.Total Water Requirement

Dry season:	Source of water	MIDC
	Fresh water (CMD):	973 KLD
	Recycled water - Flushing (CMD):	1202 KLD
	Recycled water - Gardening (CMD):	314 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2175 KLD
	Fire fighting - Underground water tank(CMD):	Provided
	Fire fighting - Overhead water tank(CMD):	provided
	Excess treated water	442 KLD (AC Cooling tower make up)
Wet season:	Source of water	MIDC
	Fresh water (CMD):	Roof top water is collected and reused for domestic purposes
	Recycled water - Flushing (CMD):	Roof top water is reused
	Recycled water - Gardening (CMD):	Controlled watering (As and when required) will be done during rainy season
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
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	874 KLD	1301 KLD	2175 KLD	Not applicable	Not applicable	Not applicable	787 KLD	1171 KLD	1958 KLD

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	50 meters
	Size and no of RWH tank(s) and Quantity:	Rain water storage tanks are provided in the project
	Location of the RWH tank(s):	At basement level
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	Already implemented
	Budgetary allocation (O & M cost) :	Not applicable
	Details of UGT tanks if any :	Not applicable
35.Storm water drainage	**Natural water drainage pattern:**	Slopping pattern in the project is maintained
	Quantity of storm water:	Not applicable
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	1958 KLD
	STP technology:	Extended Aeration Activated Sludge Process
	Capacity of STP (CMD):	Existing - Presently STps of 4 X 220 KLD and 1 X 400 KLD are in operation (Totaling 1280 KLD capacity) and Proposed - STPs of 220 KLD, 350 KLD and 410 KLD (Totaling 980 KLD) will be established for the blocks which are yet to be constructed.
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	8 Lakhs
	Budgetary allocation (O & M cost):	1 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	13.5 KLD
	Disposal of the construction waste debris:	Construction debris of about 150 cum generated will be used as preparatory materials for road formation activities within the project site.
Waste generation in the operation Phase:	**Dry waste:**	Total after expansion - 3796 Kg/day
	Wet waste:	Total after expansion - 5694 Kg/day
	Hazardous waste:	5000 Liters/ annum
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	814 kg/day
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	The dry waste is sent for recycling.
	Wet waste:	Wet waste is treated through Vermi Composting Method and manure generated is used for landscape development within the project
	Hazardous waste:	Sent to re processor
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	used as organic manure for the development of plantations within the premises
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Out side the building in designated area
	Area for the storage of waste & other material:	100 sq m
	Area for machinery:	20 sq m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 Lakhs
	O & M cost:	50,000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6 to 8	6.5 to 8.5	Conforms
2	BoD	mg/l	350 to 400	<10 mg/l	Conforms

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	used oil	5.1	Not applicable	2000 Liters/annum	3000 Liters/annum	5000 Liters/annum	Disposed through 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	8 no's X 1500 kVA DG Set - Existing	Diesel - 315 Liters /hr for each DG set	1	30 meters	80 mm	Not applicable
2	9 no's X1010 kVA DG Set - Existing	Diesel - 213 Liters/hr for each DG set	2	30 meters	80 mm	Not applicable
3	1 No. X 1110 kVA DG Set - Existing	Diesel - 234 lietrs/hr for each DG set	3	30 meters	80 mm	Not applicable
4	6 no's X 1500 kVA DG Set - Proposed	Diesel - 315 Liters/hr for each DG set	4	30 meters	80 mm	Not applicable

5	4 no's X 1010 kVA DG Set - Proposed	Diesel - 213 liters/hr for each DG set	5	30 meters	80 mm	Not applicable
6	3 no's X 1110 kVA DG Set - Proposed	Diesel - 234 Liters/hr for each DG set	6	30 meters	80 mm	Not applicable
7	4 Np's X 2000 kVA DG Set - Proposed	Diesel - 420 Liters/hr for each DG set	7	30 meters	80 mm	Not applicable

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	4671 Liters/hr	5124 Liters/ hr	9795 Liters/hr
41.Source of Fuel		Near by outlet		
42.Mode of Transportation of fuel to site		Trucks		

43.Green Belt Development	**Total RG area :**	1,0,4,460 sq m
	No of trees to be cut :	None
	Number of trees to be planted :	Presently 5075 trees and 4200 trees palms and bamboos are planted at site.
	List of proposed native trees :	native and Indigenous trees species will be planted
	Timeline for completion of plantation :	already planted and also plantation will be taken up once the construction of proposed building is started.

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	Spathodia, Delnox regia, Casia fistula, Eruthrina indica, Filicium decipes, Jacaranda mimosifolia, Melia azardichta, Millingtonia hortensis, Mimusops elengill, Plerospermum acerifolium, Kadamba, Plumeria alba, Alistonia, Terminilia mantaly, Madhuka longifolia, Michelia champaka, Pongamia pinnata, Plumeria obtuse, Plumeria rubra, Saraca indica, Lagestronia indica, Bahunia purperia, Tabubia rosea, Cordia sabestina.	-	5075	native and Indigenous trees species will be planted
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 :**	MSEB
	During Construction Phase: (Demand Load)	500 kVA
	DG set as Power back-up during construction phase	1 no. X 500 kVA DG Set
	During Operation phase (Connected load):	50,000 kVA
	During Operation phase (Demand load):	50,000 kVA
	Transformer:	Installed in the project
	DG set as Power back-up during operation phase:	Existing - 8 X 1500 kVA, 9 X 1010 kVA and 1 X 1110 kVA capacity DG sets and Proposed - 6 X 1500 kVA, 4 X 1010 kVA, 3 X 1110 kVA and 4 X 2000 kVA capacity DG Sets are proposed to be added along with the DG sets which are in operation.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	-

48.Energy saving by non-conventional method:

Solar Street light and lighting for common areas is proposed.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy saving measures viz., low loss energy, efficient transorners, LEDs, ballets, variable frequency drives for motors for low power consumption is used in the project.	-

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG Sets	Acoustic enclosures and adequate stack as per norms	Not applicableAcoustic enclosures and adequate stack as per norms

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 lakhs
	O & M cost:	2 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water environment	• Sprinkling to control fugitive dusts and Construction & curing purposes	Capital cost of 10 lakhs and recurring cost of 2 lakhs

2	Water environment	Sewage Treatment Plant for Operation Phase	Capital cost of 200 lakhs
3	Water environment	Potable water requirement for the construction workers	Capital cost of 3 lakhs and recurring cost of 1 lakh
4	Water environment	Temporary Storm Water Drains	Capital cost of 10 lakhs and recurring cost of 1 lakhs
5	Safety	Personal protection safety gadgets and health care	Capital cost of 2 lakhs and recurring cost of 1 lakhsCapital cost of 2 lakhs and recurring cost of 1 lakh
6	Safety	First aid facilities for workers	Capital cost of 2 lakhs and recurring cost of 1 lakh
7	Landscape development	Nurturing and planting of Saplings	Capital cost of 10 lakhs
8	Environmental Monitoring Plan	Air, Noise, Water and soil - Monitoring	Recurring cost of 2 lakhs

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 Management Plan	Environmental Management Plan comprise of Operation of Sewage Treatment Plant, Rain water harvesting and Ground water recharging, DG sets acoustic & Maintenance, Landscape development, Solid waste management and Environmental Monitoring Plan	60.50	28.60

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	On major juncation

Parking details:	**Number and area of basement:**	Existing buildings total stilt floor area: 7080 sq m
	Number and area of podia:	-
	Total Parking area:	About 10970 sq m including MLCP area of the existing buildings
	Area per car:	As per norms
	Area per car:	As per norms
	Number of 2-Wheelers as approved by competent authority:	As per norms - two wheeler parking spaces are earmarked at surface level
	Number of 4-Wheelers as approved by competent authority:	As per MIDC norms
	Public Transport:	Available and utlized
	Width of all Internal roads (m):	As per MIDC norms
	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	B
	Court cases pending if any	NA
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	21-12-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Total Plot Area (m^2)	EC obtained: 2,76,874 sq m Reduction due to re allotment/ alignment: 3,895 sq m After expansion and modification: 2,72,979 sq m
Deductions (m^2)	-
Net Plot area (m^2)	2,72,979 sq m
Proposed FSI area (m^2)	4,90,328.78 sq m
Proposed non-FSI area (m^2)	3,29,625.96 sq m
Proposed TBUA (m^2)	8,19,954.74 sq m
TBUA (m^2) approved by Planning Authority till date	2,90,189.68 sq m, 1. Building Plan Approval for Block No. 1, 11 & Training Center vide No. EE/IT/Plans/433/ of 2008 dated 22-02-2008 2. Revised Building Plan Approval for Block No. 1 & 2 vide No. EE/IT/Plans/1092/ of 2008 dated 23-05-2008 3. Building Plan Approval for Block No. 5 with MLCP-3 vide No. EE/IT/Plans/1924/ of 2009 dated 12-10-2009 4. Revised Building Plan Approval for Block No. 3 with MLCP-1 vide No. EE/IT/Plans/C80266/ of 2013 dated 06-09-2013 5. Building Plan Approval for Food Court vide No. EE/IT/Plans/D16782/ of 2013 dated 1110-2013 Revised Building Plan Approval for Block No. 6 vide No. EE/IT/Plans/D71939/ of 2013 dated 04-12-2013
Ground coverage (m^2) & %	77,624.63 sq m (28.43%)
Total Project Cost (Rs.)	EC obtained: Rs. 435 Crores Proposed Mod & Exp. Cost: Rs.1000 Crores After expansion and modification: Rs. 1,435 Crores

Details of Building Configuration:

EC OBTAINED: IT Park consisting of 11 Office Building, 6 Multilevel Car Parking, 1 Food Court, 1 Training center and 2 utility and services (Totalling to 21 blocks).

AFTER EXPANSION: IT Park consisting of 11 Office Building, 5 Multilevel Car Parking, 1 Food Court, 1 Training center and 2 utilities & service blocks (Totalling to 20 blocks)

Building Configuration after Expansion and Modification:

Sl. No	Blocks	Built-up area (sq. m)	Configuration	Status
1	Block 1	29,302.37	S1 + S2 + G + 5 F	Under Operation
2	Block 2	29,242.07	S1 + S2 + G + 5 F	
3	Block 3 with MLCP 1	47,226.93	G + 10 F	
		37,814.02	G + 6 F	
4	Block 4 with MLCP 2	85,691.17	S1 + S2 + G + 12 F	Proposed
5	Block 5 with MLCP 3	45,165.45	LG + G + 8 F	Under Operation
		29,129.41	LG + G + 5F	
6	Block 6	30,661.95	G + 9F	
7	Block 7 & 8	81,970.95	S + G + 10 F	Proposed
9	Block 9	1,16,640.70	5 Podium + 14 F	
10	Block 10	1,45,934.96	5 Podium + 12 F	
11	Block 11	33,591.52	B + 7F	Under Operation
12	MLCP - 4	36,057.18	B + 7F	Proposed
13	MLCP - 5	63,151.25	G + 14 F	
14	Food Court	4,326.93	G + 2F	Under Operation
15	Training Centre	3,728.97	G + 1F	
16	HSD yard	156.04	Underground	Proposed
17	Garbage & OWC	343.07	Ground	Proposed
18	Total 18 Blocks	8,19,954.74	-	8 under operation 10 Proposed

Components approved and components constructed as per earlier EC and proposed development:

Sl. No.	Buildings approved as per EC	Buildings Constructed as per EC
1	Block 1 & 2	Constructed
2	Block 3 with MLCP 1	Constructed
3	Block 4 with MLCP 2	Proposed
4	Block 5 with MLCP 3	Constructed
5	Block 6	Constructed
6	Block 7, 8, 9 & 10	Proposed
7	Block 11	Constructed
8	MLCP - 4 & 5	Proposed
9	Food Court	Constructed
10	Training Centre	Constructed
11	HSD yard, Garbage & OWC	Proposed

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 B(a)B1.

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF & CC circular dated 1/05/2018 along with details of fund utilization & agreement or consent of executor.
2. PP to submit detailed disaster management plan incorporating lightening arrester plan.
3. PP to provide STPs open to sky and above ground in all blocks meeting the prescribed norms.
4. PP to prepare consolidated report on traffic and vehicular pollution as a single chapter in EIA.
5. 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.
6. PP to submit detail debris management plan; PP should not remove the debris haphazardly & dump it on road side.
7. PP to submit phase wise development plan considering wind rose diagram.
8. PP to submit details hydro geological survey report with graphs & data.
9. PP to submit layout showing natural water courses on site; PP to submit total runoff calculation before and after development.
10. PP to submit all copies of permissions granted by State Government in tabular and chronological form.
11. PP to submit specific NOC for supply of water for entire project by Irrigation Department.
12. PP to submit internal storm water drain and sewer line arrangements up to final disposal point.
13. PP to include carbon footprint estimations for operation & construction phase in EIA report.
14. PP to carry out fugitive dust monitoring by using local meteorological data.
15. PP to submit waste management plan details with its transport, collection, storage and disposal for all types of wastes like hazardous waste, non-hazardous waste, solid waste, E- waste, and debris/excess earth etc.; PP to submit OWC details.
16. PP to 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
17. PP to identify sources of air pollution, PP to include mitigation measures to reduce Air pollution/Noise pollution.
18. 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.
19. PP to explore possibility to install air monitoring station on site during construction as well as operation phase for ambient air quality monitoring.
20. PP to submit undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.
21. 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.
22. 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.
23. PP to submit affidavit mentioning no occupancy will be given till sustained water supply to the project.
24. PP to include condition of "maintenance of all Pollution Control Equipment's and functioning of Environment Monitoring Cell in their MoU with society.
25. PP to provide mandatory RG area on virgin land and submit the drawing with calculations. PP to ensure that entire mandatory RG shall be provided on the plot where residential buildings are proposed.
26. 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.

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

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Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for Proposed Residential & Commercial project at S. no. 123/1/2 & S. no. 123/1/3, Wadmukhwadi, Tal. Haveli, Pune by M/s. EXPAT Properties

Is a Violation Case: Yes

1.Name of Project	Proposed Residential & Commercial project at S. no. 123/1/2 & S. no. 123/1/3, Wadmukhwadi, Tal. Haveli, Pune by M/s. EXPAT Properties
2.Type of institution	TOR
3.Name of Project Proponent	Mr. Anil Kakade
4.Name of Consultant	J M EnviroNet Pvt Ltd, Sayali Jagtap, EIA Co-ordinator, 9960159156
5.Type of project	Residential & Commercial Project.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Environment Clearance no. 21-1124/2007-IA-III/TCI dated 05.05.2009
8.Location of the project	S. no. 123/1/2 & S. no. 123/1/3, Wadmukhwadi, Tal. Haveli, Pune.
9.Taluka	Haveli
10.Village	Wadmukhwadi
Correspondence Name:	Sayali Jagtap
Room Number:	F3
Floor:	First floor
Building Name:	Dindayal nagar
Road/Street Name:	Medical college road
Locality:	Katraj
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation (PCMC)
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: BP/ENV/Wadmukhwadi/01/2020 dated 15.01.2020
	Approved Built-up Area: 70206.54
13.Note on the initiated work (If applicable)	Total constructed area : 54343.36 sq. m
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	36300 sq. M
16.Deductions	16248.56 sq. M
17.Net Plot area	20051.48 sq. M
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 35695.43 sq. m
	b) Non FSI area (sq. m.): 34511.11 sq. m
	c) Total BUA area (sq. m.): 70206.54
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 35695.43 sq. m
	Approved Non FSI area (sq. m.): 34511.11 sq. m
	Date of Approval: 15-01-2020
19.Total ground coverage (m2)	5269.04 sq. M
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	26.27 %
21.Estimated cost of the project	980000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Row house R1 to R12	Ground +1 floor	6.25 m
2	Villa 1-10	Ground +1 floor	6.28 m
3	Building A1	Parking +11 floors	35.14 m
4	Building A2	Parking +11 floors	34.99 m
5	Building A3	Parking +11 floors	34.99 m
6	Building A4	Parking +11 floors	34.99 m
7	Building A5	Parking +11 floors	34.99 m
8	Building A6	Lower Parking + Upper Parking + 10 floors	35.72 m
9	Building A7	Basement + Parking +12 floors	41.58
10	Amenity (Commercial)	Lower Ground + Ground + 4 floors	17.83
11	Club house	Ground +1 floor	6.28 m

23.Number of tenants and shops	Residential : 424 no's Commercial building
24.Number of expected residents / users	Residential : 2120 Floating population : 438 no's
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)	60.00 wide Pune Alandi 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	Row house R1 to R12 : Ground +1 floor Villa 1-10 : Ground +1 floor Building A1 : Parking +11 floors Building A2 : Parking +11 floors Building A3 : Parking +11 floors Building A4 : Parking +11 floors Building A5 : Parking +11 floors Building A6 : Lower Parking + Upper Parking + 10 floors Club house : Ground + 1 Swimming pool
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	201.75
	Recycled water - Flushing (CMD):	104.16
	Recycled water - Gardening (CMD):	18.44
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	329.32
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	150 (all buildings)
	Excess treated water	138.95
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	201.75
	Recycled water - Flushing (CMD):	104.16
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	305.91
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	150 (all buildings)
	Excess treated water	157.39
Details of Swimming pool (If any)	• Dimension of Swimming Pool: 15.3m length x7.5m wide x1.3m deep • Total water Requirement in KLD: 170 KLD • Water requirement for make up in KLD: 5 KLD • Capital Cost: Rs. 20,00,000 /- • O & M cost: - Rs. 1,00,000 /-	

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 10.00 meter Pre monsoon 20.00 meter
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	6 No.
	Size of recharge pits :	2. No Pit 2*2*2meter and chamber 1*1*1 m Bore well 0.160 meter diameter and 60 meter depth 3 No No Pit 2*2*2meter
	Budgetary allocation (Capital cost) :	Rs. 04,50,000
	Budgetary allocation (O & M cost) :	Rs. 30,000 /-
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 203.35 KLD Flushing tank Capacity(cum) : 101.87 KLD Fire UG tank Capacity (cum) : 450 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	21 m3/m
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	275.32 KLD
	STP technology:	Existing : Extended aeration , Proposed : MBBR technology
	Capacity of STP (CMD):	STP 1 (Existing) : 260 KLD , STP 2 (Proposed) : 20 KLD
	Location & area of the STP:	STP 1 area : 250 sq. m , STP 2 Area : 40 sq. m
	Budgetary allocation (Capital cost):	Rs. 65,00,000 /-
	Budgetary allocation (O & M cost):	Rs. 15,00,000 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Used within site
Waste generation in the operation Phase:	**Dry waste:**	476.56 kg/day
	Wet waste:	671.04 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	17 kg/day
	Others if any:	E-waste : 4.10 kg/day

Mode of Disposal of waste:	**Dry waste:**	To authorized vendor
	Wet waste:	Treatment of OWC
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Will be used as manure after treatment
	Others if any:	E-waste- To SWACH
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	38 sq. m
	Area for machinery:	47 sq. m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 17,59,000 /-
	O & M cost:	Rs. 5,07,840 /-

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 :**	Total RG area : 3074.02 sq. M
	No of trees to be cut :	0
	Number of trees to be planted :	0
	List of proposed native trees :	390 (Existing 315 + Proposed 75)
	Timeline for completion of plantation :	Up to completion 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	Tabebuia Argentia	Yellow trumpet tree	15	Medium size deciduous tree , yellow flowering tree.
2	Lagerstromia indica	Taman	30	State flower of maharashtra, medium size tree with beautiful purple flower.
3	Ficus Religiosa	Pepal	15	Large Semi-Evergreen tree, sacred tree of india
4	Azadirachta indica	Neem	20	Semi - evergreen / shady tree with medicinal value.
5	Tabebuia rosea	Rosy trumpet tree	15	Medium size deciduous tree , Pink flowering tree
6	Bahunia purpurea	Kanchan	35	Medium size pink flowering tree
7	Bahunia tomentosa	Kachnar	15	Medium size yellow flowering tree
8	Mimosopus Elengi	Bakul	10	Medium size evergreen tree with medicinal value
9	Plumeria Alba	White franjipani	40	Evergreen medium size white flowering tree, medicinal value
10	Plumeria Rubra	Red franjipani	35	Evergreen medium size white flowering tree, medicinal value.
11	Jacaranda Mimosifolia	Jacaranda	10	Deciduous tree, spreading type with purple flowering
12	Michelia champaca	Sonchafa	65	Medium size evergreen tree. Fragrant yellow flowers,butterfly host plant
13	Saraca Indica	Sita Ashoka	35	Medium size sacred tree of India with medicinal value
14	Psidium guayava	Gauva	25	Medium sized fruit bearing tree, medicinal plant-good source of calcium and vitamin C.
15	Achras sapota	Chikoo	25	Medium sized fruit bearing tree, medicinal value,bird attracting tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	40 KVA
	During Operation phase (Connected load):	2933 KW (3259 KVA)
	During Operation phase (Demand load):	1394 KW (1549 KVA)
	Transformer:	22KV/630 KVA - 3 No's
	DG set as Power back-up during operation phase:	2 x 125 KVA & 100 KVA
	Fuel used:	22.7 lit/hr For 125 KVA (For 100%) & 22 lit/hr For 100 KVA (For 100%)
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

• Energy Saving Measures -
• 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.
• Energy Saving Achieved per Day – 33144 KWH.
• Annual Savings with energy efficient equipments is 21.16 % & 16.57 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Percentage Savings Per Day. For TOTAL Annual Savings in KWH for Solar Power, Hot Water & LED Lighting Details	14.72 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 74,80,000 /-
	O & M cost:	Rs. 1,38,000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):			
Serial Number	**Attributes**	**Parameter**	**Total Cost per annum (Rs. In Lacs)**
1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000/-
2	Land	Site Sanitation	Rs. 26,500 /-
3	Health & safety	Site Safety	Rs.88,000 /-
4	Environment management	Environmental Monitoring	Rs. 1,20,000/-
5	Health & safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):				
Serial Number	**Component**	**Description**	**Capital cost Rs. In Lacs**	**Operational and Maintenance cost (Rs. in Lacs/yr)**
1	Sewage Treatment Plant	2 STPs	Rs. 65,00,000 /-	Rs. 15,00,000 /-
2	Rain Water Harvesting	14 no's	Rs. 4,50,000 /-	Rs. 30,000 /-
3	Solid Waste Management	OWC	Rs. 17,59,000 /-	Rs. 5,07,840 /-
4	Green Belt Development	390 trees	Rs. 38,42,525 /-	Rs. 2,88,000 /-
5	Energy	Solar system	Rs. 74,80,000 /-	Rs. 1,38,000/-
6	Swimming pool	01 no	Rs. 20,00,000 /-	Rs. 1,00,000 /-
7	Environmental Monitoring	Environment management	-	Rs. 8,90,000/-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Existing 60.00 m wide Pune-Alandi road

Parking details:	**Number and area of basement:**	1 no. Area : 2034.69 sq. m
	Number and area of podia:	No
	Total Parking area:	16955.40 sq. m
	Area per car:	30 sq. m
	Area per car:	30 sq. m
	Number of 2-Wheelers as approved by competent authority:	Scooters : 976, cycles : 891
	Number of 4-Wheelers as approved by competent authority:	445
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 m & 12.00 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	No
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Total Plot Area (sq. m.)	36300 sq. M
Deductions	16248.56 sq. M
Net Plot area	20051.48 sq. M
Proposed Built-up Area (FSI & Non-FSI) (m^2)	70206.54 sq. m
FSI area (m^2)	35695.43 sq. m
Non FSI area (m^2)	34511.11 sq. m
Total built up area approved by planning authority	70206.54 sq. m
Total ground coverage (m^2)	5269.04 sq. M
Ground-coverage Percentage (%)	26.27 %
Estimated cost of the project (in Rs.)	Rs. 98 Cr

Number of buildings & its configuration:

S. No.	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Row house R1 to R12	Ground +1 floor	6.25 m
2	Villa 1-10	Ground +1 floor	6.28 m
3	Building A1	Parking +11 floors	35.14 m
4	Building A2	Parking +11 floors	34.99 m
5	Building A3	Parking +11 floors	34.99 m
6	Building A4	Parking +11 floors	34.99 m
7	Building A5	Parking +11 floors	34.99 m
8	Building A6	Lower Parking + Upper Parking + 10 floors	35.72
9	Building A7	Ground + Podium Parking +12 floors	41.58
10	Amenity (Commercial)	Lower Ground + Ground + 4 floors	17.83
11	Club house	Ground +1 floor	6.28

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

During discussion following points emerged:

1. PP to ensure continuous monitoring of pH, TSS and DO for the STP. PP to install ozonation on existing STP.

2. The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 1.98 Cr. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 73.5 Lakh which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 1.98 Cr for the project completion period.

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

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Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 03

SEAC Meeting number: 103 **Meeting Date** February 13, 2020

Subject: Environment Clearance for Residential and Commercial development

Is a Violation Case: Yes

1.Name of Project	"Aura County" Residential and commercial development.
2.Type of institution	Private
3.Name of Project Proponent	M/s Bhagvati Infra formerly known as M/s Jalan Maple Shelters through Mr. Vijay N Jalan
4.Name of Consultant	SD Engineering Services Pvt. Ltd.
5.Type of project	Residential and Commercial development.
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	New project
8.Location of the project	Gat No. 1347/1, 1343(P), 1347/5, Near Kharadi Jakat Naka, Ubalenagar, Nagar Road, Wagholi - Pune 412 207
9.Taluka	Haveli
10.Village	Ubalenagar, Wagholi.
Correspondence Name:	Vijay Jalan
Room Number:	Office Nos. 302/303
Floor:	Third floor
Building Name:	Park Plaza
Road/Street Name:	Dr. Ketkar Road, Kamla Nehru Park.
Locality:	Erandwane
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Metropolitan Region Development Authority (PMRDA)
12.IOD/IOA/Concession/Plan Approval Number	BHA/1734/15-16 dated 28-07-2016 for FSI – 51,455.13 Sq. m, Non FSI 31,569.25 Sq. m. and Total BUA 83024.38 sq. m
	IOD/IOA/Concession/Plan Approval Number: BHA/1734/15-16 dated 28-07-2016
	Approved Built-up Area: 83024.38
13.Note on the initiated work (If applicable)	FSI 34736.96+ NON FSI 22455.06 = Total BUA 57192.02
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	55724.00
16.Deductions	5,626.50 (road widening) + 7514.63 (Amenity area) = 13,141.13 Sq.m.
17.Net Plot area	42582.87
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 59,121.08
	b) Non FSI area (sq. m.): 35,768.95
	c) Total BUA area (sq. m.): 94890.03
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 51,455.13
	Approved Non FSI area (sq. m.): 31,569.25
	Date of Approval: 28-07-2016
19.Total ground coverage (m2)	7790.45
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.29
21.Estimated cost of the project	2150000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A Gat No.1347/5	P+8	25.80
2	Building B Gat No.1347/5	P+8	25.80
3	Building C Gat No.1347/5	P+8	25.80
4	Building D Gat No.1347/5	P+8	25.80
5	Building E Gat No.1347/5	2P (Parking + Podium) +12	40.05
6	Building F Gat No.1343/A/2	2P (Parking + Podium) +11	37.20
7	Building G Gat No.1347/5	P+11	34.20
8	Building A 1 Gat No.1347/1	P+10	31.35
9	Building B1 Gat No.1347/1	P+10	31.35
10	Building C1 Gat No.1347/1	P+10	31.35
11	Building D1 Gat No.1347/1	P+12	37.20
12	Building E1 Gat No.1347/1	P+7	22.95
13	Building F1 Gat No.1347/1	P+9	28.65
14	Hotel Gat No.1347/1	G+5	17.40
15	Club House 1 Gat No.1347/5	G+1	7.62
16	Club House 2 Gat No. 1347/1	G+1	7.62

23.Number of tenants and shops	Total no. of Tenants: - 1079 Nos. Hotel building 1no.
24.Number of expected residents / users	Number of expected residents (Fixed):- 5395 nos. Floating - 476
25.Tenant density per hectare	253 Tenant / hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Yerawda Fire Station within ~10 km
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9 m.
29.Existing structure (s) if any	7 Buildings, 1 hotel, 1 club house
30.Details of the demolition with disposal (If applicable)	Existing STP will be demolished and debris will be used within site

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**	Local Body
	Fresh water (CMD):	491 Residential + 19 Commercial
	Recycled water - Flushing (CMD):	243 Residential + 15 Commercial
	Recycled water - Gardening (CMD):	31
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	799
	Fire fighting - Underground water tank(CMD):	300 Residential + 50 Commercial
	Fire fighting - Overhead water tank(CMD):	20 Residential + 20 Commercial
	Excess treated water	387 Residential + 14 Commercial
Wet season:	**Source of water**	Local Body
	Fresh water (CMD):	491 Residential + 19 Commercial
	Recycled water - Flushing (CMD):	243 Residential + 15 Commercial
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	768
	Fire fighting - Underground water tank(CMD):	300 Residential + 50 Commercial
	Fire fighting - Overhead water tank(CMD):	20 Residential + 20 Commercial
	Excess treated water	417 Residential + 15 Commercial
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	309	201	510	31	20	51	278	181	459
Domestic	157	101	258	16	10	26	141	91	232
Gardening	21	10	31	21	10	31	00	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 18.00 m. to 21.50 m. BGL. (19.75 m. Average) BGL. Rainy Season – 6.00 m. to 10.00 BGL. (8.00 m. Average) BGL. Winter Season – 12.00 m. to 15.75 m. BGL. (13.875 m. Average) BGL.
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	Total 23 Nos. (14 for roof top & 9 for surface run off)
	Size of recharge pits :	a) 2.50 M. X 2.50 M. X 1.00 M. depth with 50 to 60 m. deep 6" Dia. bore well via 1 no. of de-siltation chamber of 0.9 m. dia. 1.0 m. deep & b) 2.50 M. X 2.50 M. X 2.00 M. depth with 50 to 60 m. deep 6" dia. bore well via 2 no. of de-siltation chambers of 0.9 m. dia. 1.0 m. deep.
	Budgetary allocation (Capital cost) :	28.75 Lacs
	Budgetary allocation (O & M cost) :	1.00 Lacs/annum
	Details of UGT tanks if any :	1) Domestic UG tank capacity(cum)- Utility Tank = Residential 735 + Commercial 28 Drinking water tank = Residential 55 + Commercial 5 2) Flushing tank capacity (cum)- Flushing tank = Residential 410 + Commercial 24 3) Fire UG tank capacity (cum)- Residential 300 + Commercial 50.
35.Storm water drainage	**Natural water drainage pattern:**	North to South East
	Quantity of storm water:	28,993.42 m3/yr i.e.579.87 m3/day considering 849.30 mm average rain fall in 50 days per year.
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	Residential 660 + Commercial 30
	STP technology:	MBBR
	Capacity of STP (CMD):	3 No. of STP - capacity 600 KL (Residential) + 80 KL (Residential Pre-fab) & 35 KL (Commercial)
	Location & area of the STP:	Near hotel , near building F and building G
	Budgetary allocation (Capital cost):	Residential 32 Lacs + Residential Prefab 27 Lacs + Commercial 7.5 Lacs
	Budgetary allocation (O & M cost):	Residential 23.55 Lacs/annum + Residential Prefab 7.9 Lacs/annum + Commercial 7.10 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	10 Kg/day
	Disposal of the construction waste debris:	Top soil will be used for landscaping and remaining will be used for filling
Waste generation in the operation Phase:	**Dry waste:**	Residential 1079 Kg/day + Commercial 48 Kg/day
	Wet waste:	Residential 1619 Kg/day + Commercial 71 Kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Residential 100 Kg/day + Commercial 5 Kg/day
	Others if any:	E waste- Residential 7 Kg/day + Commercial 1 Kg/day

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recyclers
	Wet waste:	Treated in Organic Waste Converter
	Hazardous waste:	Handed over to authorized vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	E waste- Handed over to Authorized Vendor
Area requirement:	**Location(s):**	Near Hotel , near building A and building G
	Area for the storage of waste & other material:	Residential 1- 95 + Residential 2 - 45 + Commercial 41 Sq.m.
	Area for machinery:	considered in above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Residential 1 - 27.41 + Residential 2 - 9.85 + Commercial 8.69 Lacs
	O & M cost:	Residential 1 - 10.47+ Residential 2 - 2.06 + 2.06 Lacs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	2 x 180 kVA	Diesel	02	6.68	0.10	500
2	2x 250 kVA	Diesel	02	7.1	0.12	500

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	5009.26 sq.m
	No of trees to be cut :	0
	Number of trees to be planted :	No. of trees required: 532, Existing trees on net plot 501, Trees to be transplanted 69, Additional plantation 111
	List of proposed native trees :	As below
	Timeline for completion of plantation :	Before 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	Bauhenia purpurea	KANCHAN	7	Flowering and bird attracting tree
2	Cassia fistula	BAHAVA	2	Drought tolerant, ornamental & medicinal plan
3	Teak wood	SAG	1	Deciduous tree.
4	Leucaena leucocephala	SUBABUL	61	Deciduous tree and used for for fodder
5	Delonix regia	GULMOHAR	81	Flowering and bird attracting tree
6	Terminalia catappa	BADAM	12	Fruit bearing tree
7	Araucaria	CHRISTSMAS TREE	3	Evergreen and bird attracting tree
8	Thevetia peruviana	BITTI	36	flowering and evergreen tropical shrub
9	Samanea saman	RAIN TREE	6	shade tree, spreading deciduous and bird attracting tree
10	Spathodea campanulata	TULIP TREE	2	flowering and bird attracting tree
11	Azardirachta indica	NEEM	52	Evergreen medicinal and bird attracting tree
12	Tabebuia argentia	TRMUPET TREE	4	Deciduous, flowering and bird attracting tree
13	Syzygium cumini	JAMBHUL	11	Fruit bearing and bird attracting tree
14	Syzygium guava	GUAVA	6	Fruit bearing tree
15	Plumeria alba	CHAFA	1	flowering and bird attracting tree
16	Polyalthia longifolia	ASHOK	3	Evergreen, and bird attracting tree
17	Carica papaya	PAPAYA	5	Evergreen and fruit bearing tree
18	Pongamia pinnate	KARANJ	3	Evergreen and bird attracting tree
19	Peltophorum petrocarpum	COPPER POD	12	Evergreen, flowering and bird attracting tree
20	Cocos nucifera	COCONUT	18	Evergreen and fruit bearing tree
21	Moringa oleifera	SHEVGA	1	fruit bearing tree
22	Caesalpinia pulcherrima	SHANKASUR	8	deciduous and bird attracting tree
23	Callistmon citrinus	BOTTLE BRUSH	3	Flowering and bird attracting tree
24	Ficus racemosa	UMBER	1	Fruit bearing tree
25	Plumeria obtusa	CHAFA	1	Flowering and bird attracting tree

26	Nyctanthes arbor-tristis	PARIJATAK	1	flowering and bird attracting tree
27	Swetenia mahogony	MAHAGONY	1	Evergreen medicinal and bird attracting tree
28	Tamarindus indica	CHINCH	9	Fruit bearing and bird attracting tree
29	jacaranda mimosifolia	JACARANDA	5	flowering and bird attracting tree
30	Annona squamosa	SITAPHAL	1	fruit bearing tree
31	Artocarpus heterophyllus	PHANAS	1	fruit bearing and bird attracting tree.
32	Tabebuia argentea	ROSY TRUMPET TREE	1	Deciduous, flowering and bird attracting tree
33	Tecoma gaudichaudi	TECOMA	17	flowering and bird attracting tree
34	Nerium oleander	NERIUM	5	Evergreen, flowering and bird attracting tree
35	Mascarena lagenicaulis	BOTTLE PALM	5	Evergreen tree
36	Foxtail palm	FOXTAIL PALM	12	Evergreen and bird attracting tree
37	Areca palm	ARECA PALM	40	Evergreen, and bird attracting tre
38	Plumeria rubra	Pink CHAFA	1	flowering and bird attracting tree
39	Lagerstroemia speciosa	LAGESTROMIA	1	flowering and bird attracting tree
40	Bambusa valgaris	BAMBOO	3	Evergreen and used for a variety of purposes, primarily for use in light construction such as houses, huts, boats.
41	Ficus religiosa	PIMPAL	18	Evergreen and bird attracting tree
42	Cascabela thevetia	THEVETIA	33	Evergreen flowering and bird attracting tree
43	Casuarina	SURU	5	deciduous tree
44	Bugainvillea galbra	BUGAINVILLEA	1	Evergreen, flowering and bird attracting tree
45	Butea monosperma	FLAME OF FOREST	1	flowering and bird attracting tree
46	Proposed tree list mentioned below	Proposed tree list mentioned below	Proposed tree list mentioned below	Proposed tree list mentioned below
47	Jacaranda mimosifolia	JACARANDA	4	flowering and bird attracting tree
48	Tabebula argentia	TRUMPET TREE	5	Flowering tree
49	Saraca indica	SITA ASHOK	6	Evergreen and bird attracting tree
50	Plumeria alba	Chafa	7	Flowering tree
51	Azardiractha india	NEEM	5	Evergreen medicinal and bird attracting tree
52	Tabebulia rosea	PINK TRUMPET TREE	2	Deciduous, flowering and bird attracting tree
53	Peltophorum petrocarpum	COPPER POD	4	Evergreen, flowering and bird attracting tree
54	Mimusops elengi	BAKUL TREE	4	Flowering tree
55	Cassia fistula	BAHAWA TREE	5	Flowering tree
56	Psidium guajava	GUAVA	5	fruit bearing tree
57	Bauhinea purpurea	KANCHAN	5	Flowering tree
58	Michelia champaca	CHAPHA	7	Flowering tree

59	Pongamia pinnate	KARANJ	6	Evergreen and bird attracting tree
60	Millingtormia hotensis	INDIAN CORK TREE	5	Flowering & bird attractive tree
61	Lagestromia speciosa	TAMAN	7	Flowering tree
62	Swietenia mahagony	MAHAGONY	6	Evergreen fruit bearing and bird attracting tree
63	Mangifera indica	MANGO	5	Evergreen fruit bearing and bird attracting tree
64	Cordia sebestena	CORDIA	2	Flowering tree
65	Erythrina indica	INDIAN CORAL TREE	2	Flowering tree
66	Alianthus excelsa	Marukh	4	Flowering tree
67	Syzygium cumini	Jamun	8	Fruit bearing tree
68	Artocarpus heterophyllus	Jack fruit	7	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	00	00	00

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	62.5 KVA
	During Operation phase (Connected load):	Residential – 5007 KW Hotel- 752 KW
	During Operation phase (Demand load):	Residential – 3429 KW Hotel – 500 KVA
	Transformer:	22KV / 630 KVA – 6 No & 22KV / 630KVA – 1 No
	DG set as Power back-up during operation phase:	2 x 180 kVA, 2 x 250 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Yes

48.Energy saving by non-conventional method:

1) LED Lamp & Fitting For Common Areas i.e. Bldg. Parking, Staircase, Passage & Terrace Floor.
2.1) Bollard Lighter - Light Fitting For Landscape Area.
2.2) Recesses Wall Light - Light Fitting For Landscape Area.
2.3) Planter Wall Light - Light Fitting for Landscape Area.
3.1) Solar Street Light Fitting - Pole Light On Road Side.
3.2) Street Light on the Bldg.Solar water heating system
4) Energy Saving by Solar Hot Water System.
5) Solar Power System (15% of Connected Load – 3429 x 15% = 514.35 KW = 514.35 x24 Hrs = 12344.4 KWH)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	1) LED Lamp & Fitting For Common Areas i.e. Bldg. Parking, Staircase, Passage & Terrace Floor.	19.84 %
2	2.1) Bollard Lighter - Light Fitting For Landscape Area.	Included in above
3	2.2) Recesses Wall Light - Light Fitting For Landscape Area.	Included in above
4	2.3) Planter Wall Light - Light Fitting for Landscape Area.	Included in above
5	3.1) Solar Street Light Fitting - Pole Light On Road Side.	Included in above
6	3.2) Street Light on the Bldg.	Included in above
7	4) Energy Saving by Solar Hot Water System.	Included in above
8	5) Solar Power System (15% of Connected Load – 3429 x 15% = 514.35 KW = 514.35 x24 Hrs = 12344.4 KWH)	Included in above

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	2	Commercial STP will be retained, Existing Residential STP will be replaced & another STP proposed
OWC	1	3

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	154.50 Lakhs
	O & M cost:	4.43 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water For Dust Suppression	1.2
2	Air Environment	Air & Noise monitoring	0.48
3	Water Environment	Tanker Water For Construction	1.00
4	Water Environment	Water Monitoring	0.6
5	Land Environment	Site Sanitation- Mobile toilets	3.2
6	Biological Environment	Top soil preservation	1
7	Socio- Economic Environment	Disinfection- Pest Control	1.8
8	Socio- Economic Environment	First Aid Facilities	0.5
9	Socio- Economic Environment	Health Check Up	1
10	Socio- Economic Environment	Personal Protective Equipment	1.2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	3 STP	Residential 32 + Residential (Prefab) 27 +Commercial 7.5	Residential 23.55 + Residential (Prefab) 7.9 + Commercial 7.10
2	Rain Water Harvesting	Recharge Pits	28.75	1.00
3	Solid waste Management	OWC Unit	Residential 1 27.41 + Residential 2 - 9.85 Commercial 8.69	Residential 1 10.47 + Residential 2 - 2.06 Commercial 2.06
4	Green Belt Development	Landscaping	80.0	8.0
5	Energy conservation	Solar Panel & Solar water heating	154.50	44.3
6	Storm water	laying of storm water line	6.48	0.5
7	Environment Monitoring	from MoEF approved lab	-	2.88

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Traffic generated from this project will confluent on existing 15 m and 60 m wide road

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	No. of Podia: 1 E Bldg- 1444.76 sq.m. F Bldg- 1632.96 sq.m
	Total Parking area:	13551.8 Sq.m
	Area per car:	Open parking: 25.00 & Covered parking 30.00
	Area per car:	Open parking: 25.00 & Covered parking 30.00
	Number of 2-Wheelers as approved by competent authority:	1638
	Number of 4-Wheelers as approved by competent authority:	470
	Public Transport:	Nearest Bus Stop: Wagholi
	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
	Court cases pending if any	Court case pending vide R.C.C./400003/2015 pending at Chief Judicial Magistrate, Pune under Section 15 of Environment Of Pollution Act,1974
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-

Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Total Plot Area (m2)	55,724.00
Deductions (m2)	5,626.50 (road widening) + 7,514.63 (Amenity area) = 13,141.13 Sq.m.
Net Plot area (m2)	42,582.87 Sq. m
Proposed FSI area (m2)	59,121.08
Proposed non-FSI area (m2)	35,768.95
Proposed TBUA (m2)	94,890.03
TBUA (m2) approved by	PMRDA vide letter BHA/1734/15-16 dated 28-07-2016 for FSI – 51,455.13 Sq. m, Non FSI 31,569.25 Sq. m. and Total BUA 83,024.38 sq. m
Planning Authority till date	Pune Metropolitan Region Development Authority (PMRDA)
Ground coverage (m2) & %	7,790.45 m^2 (18.29 %)
Total Project Cost (Rs.)	Rs. 215 Cr

Details of Building Configuration:

Existing Building			Proposed Configuration		
Building Name	Configuration	Height (m)	Building Name	Configuration	Height (m)
Building A Gat No.1347/5	Pk +8	25.80	Building E Gat No.1347/5	2P (Pk + Po) +12	40.05
Building B Gat No.1347/5	Pk +8	25.80	Building G Gat No.1347/5	Pk +11	34.20
Building C Gat No.1347/5	Pk +8	25.80	Building A 1 Gat No.1347/1	Pk +10	31.35
Building D Gat No.1347/5	Pk +8	25.80	Building D1 Gat No.1347/1	Pk +12	37.20
Building F Gat No.1343/A/2	2P (Pk + Po) +11	37.20	Building E1 Gat No.1347/1	Pk +7	22.95
Building B1 Gat No.1347/1	Pk +10	31.35	Building F1 Gat No.1347/1	Pk +9	28.65
Building C1 Gat No.1347/1	Pk +10	31.35	Club House 2 Gat No. 1347/1	G+1	7.62
Hotel Gat No.1347/1	G+5	17.40			
Club House 1 Gat No.1347/5	G+1	7.62			

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

During discussion following points emerged:

1. The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 3.5652 Cr. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 3.1062 Lakh which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 3.5652 Cr for the project completion period.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 04

SEAC Meeting number: 103 **Meeting Date** February 14, 2020

Subject: Environment Clearance for Proposed Commercial Project at S.no.233/ B , Plot No - 6 to 11, Lohgaon, Pune

Is a Violation Case: No

1.Name of Project	Proposed Commercial Building
2.Type of institution	Private
3.Name of Project Proponent	KAPPA REALTORS LLP
4.Name of Consultant	Vke:Environmental LLP
5.Type of project	Other
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	S.no.233/ B , Plot No - 6 to 11, Lohgaon, Pune
9.Taluka	Haveli
10.Village	Lohagaon
Correspondence Name:	Swaransingh Sohal
Room Number:	-
Floor:	6th floor
Building Name:	San Mahu Complex
Road/Street Name:	Bund Garden Road
Locality:	Opp Puna Club
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD applied Date-24/06/2019
	IOD/IOA/Concession/Plan Approval Number: IOD Applied
	Approved Built-up Area: 37875.49
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.)	5,477.46 sq.m
16.Deductions	0.00
17.Net Plot area	5,477.46 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 16,581.71
	b) Non FSI area (sq. m.): 21,293.78
	c) Total BUA area (sq. m.): 37875.49
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 16581.71
	Approved Non FSI area (sq. m.): 21293.78
	Date of Approval: 24-06-2019
19.Total ground coverage (m2)	2582.89
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	47.15%
21.Estimated cost of the project	1142500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	2B+G+2P+8	42.2

23.Number of tenants and shops	Showroom-9 No, Offices- 49No, Restaurant- 1No
24.Number of expected residents / users	3096 Person
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30.0 M. Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 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	NA	NA	NA	NA

32.Total Water Requirement

Dry season:	**Source of water**	PMC/Recycled water from STP
	Fresh water (CMD):	77.00
	Recycled water - Flushing (CMD):	62.00
	Recycled water - Gardening (CMD):	1.00
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	140
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	58.00

Wet season:	**Source of water**	PMC/Recycled water from STP
	Fresh water (CMD):	77.00
	Recycled water - Flushing (CMD):	62.00
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	139
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	59.00
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	30-35
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	As per layout
	Quantity of recharge pits:	7 nos
	Size of recharge pits :	1.5mx1.5mx1.5 m
	Budgetary allocation (Capital cost) :	8.75 lac
	Budgetary allocation (O & M cost) :	0.5 lac/annum
	Details of UGT tanks if any :	Domestic - 116.00 CuM Fire - 200.00 CuM Flushing - 62 CuM

35.Storm water drainage	**Natural water drainage pattern:**	Through Gravity
	Quantity of storm water:	0.1052 m3/sec
	Size of SWD:	300 mm X 450 mm
Sewage and Waste water	**Sewage generation in KLD:**	125 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No of 140 KLD
	Location & area of the STP:	As per Layout
	Budgetary allocation (Capital cost):	46 lac
	Budgetary allocation (O & M cost):	10.49 lac/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	20 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:**	465 kg / day
	Wet waste:	310 kg / day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	21 kg / day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Handed Over to SWACH
	Wet waste:	Organic Waste Composter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure
	Others if any:	NA
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	12.5
	Area for machinery:	23.5
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25.29 lac
	O & M cost:	5.29 lac/annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)

1	pH	-	6.0-8.5	6.5-9.0	6.5-9.0
2	Oil & Grease	mg/l	10.00-20.00	<10	<10
3	Biological Oxigen Demand	mg/l	200-250	<10	<10
4	Chemical Oxygen Demand	mg/l	350-450	<50	<50
5	Total Suspended Solid	mg/l	150-200	<10	<10
6	Total Nitrogen	mg/l	40-50	<10	<10
7	Nitrate	mg/l	15-16	<5	<5
8	Dissolve PO4	mg/l	13-15	<5	<5
9	Fecal Coliform	MPN/100 ml	10^6	Nil	NIl

Amount of effluent generation (CMD):	NA
Capacity of the ETP:	NA
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	600 KVA	at 100 % Load 125.5 Lts/hrs	2 no	5 m	0.254	464 C
2	160 KVA	at 100 % Load 35.90 Lts/hrs	1 no	5m	0.152	499 C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	at 100 % Loading 125.5 Lts/hrs	at 100 % Loading 125.5 Lts/hrs

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 :**	112.2 sq.m
	No of trees to be cut :	0
	Number of trees to be planted :	68
	List of proposed native trees :	Shisav , Parijatak , Tamhan, Champa White
	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	Phoenix sylvestris	Assamese	7	Large sized Evergreen tree
2	Dalbbergia sisoo	Shisav	3	Medicinal value, Bird attracting Species
3	Nyctanthus arbor-tritrits	Parijatak	9	Fragrant flowers, Medicinal value,
4	Lagestromia Flosre Genia	Tamhan	13	State flower tree of Maharashtra, Medium sized tree, beautiful purple flowers
5	Roystonea regia	royal palm	4	Medium- large sized , Ornamental tree
6	Azardiracta Indica	Neem	6	Large sized Evergreen tree
7	Plumeria obtusa	Champa White	12	vergreen tree is mainly grown for its strongly fragrant white flowers
8	Erythrina glauca	Coral Tree	8	Medium sezed tree , medicinal value
9	Michelia champaca	Champa	6	Rich in medicinal properties is used in several ayurvedic preparation
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)	116.54 KVA
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	2080 KW
	During Operation phase (Demand load):	1134 KVA
	Transformer:	1 NoX 1000 KVA, 1NoX315 KVA
	DG set as Power back-up during operation phase:	600 KVA X 2 No & 160KVA X 1No
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area. -102605 KWH
Energy saving using Low Loss Transformer Against Conventional Transformer -- - 6132 KWH
Energy Saved by Solar PV - 36000 KWH
Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control - 190580.39 KWH
Energy Saved by Using VFD for Lift against convensional drive - 81760 KWH
Total Energy Saving in Project by Energy saving measures - 395477 KWH

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area.	35.75%
2	Energy saving using Low Loss Transformer Against Conventional Transformer	5.26%
3	Energy Saved by Solar PV	2.76%
4	Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control	49.24%
5	Energy Saved by Using VFD for Lift against convensional drive	20%
6	Total Energy Saving in Project by Energy saving measures	10.50%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
NA	NA	NA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	127 LAKH
	O & M cost:	10.31 LAKH PER 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	Erosion control – dust suppression measures, barricading and top soil preservationWater For Dust Suppression ,Air & Noise Monitoring	1.10
2	Water Environment	"Tanker Water For Construction and water Monitoring"	6.30
3	Land Environment	"Site Sanitation, mobile toilets"	1.80
4	Biological	Top soil preservation	1.20
5	Socio-Economic	"Disinfection- Pest Control, First Aid Facilities, Health Check Up, Personal Protective Equipment"	1.80
6	Environmental Monitoring Cell	MoEF Authorized lab / NABL Accredited lab	0.90

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Waste water treatment	46	10.49
2	Rain Water Harvesting	7 No of pits	8.75	0.5
3	Solid Waste Management	"Biodegradable waste treatment"	25.29	5.29
4	Landscape	"Green Belt Development "	0.66	0.30
5	Energy	Enegy saving measures	127.13	10.31
6	Environmental Monitoring	"Ambient Air quality, Noise level, Exhaust from DG Set, drinking water,sewage from STP as per EP act,"	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

NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2 Nos
Parking details:	**Number and area of basement:**	2 No.10821.62 sq.m.
	Number and area of podia:	2 No. 5294.75 sq.m
	Total Parking area:	16116.37 Sq.M.
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	905
	Number of 4-Wheelers as approved by competent authority:	363
	Public Transport:	Lohagaon Bus Stop
	Width of all Internal roads (m):	6.0 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(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

Environmental Impacts of the project	-

Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance for total plot area of 5,477.46 m2, FSI area of 16,581.71 m2, Non FSI area of 21,293.78 m2 and total BUA of 37875.49 m2.

The building configuration of the proposal is as below:

Building A (Height 42.2 m): 2B+G+2P+8

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 satisfactorily complied with the points raised in 99th meeting of SEAC-3.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 04

SEAC Meeting number: 103 **Meeting Date** February 14, 2020

Subject: Environment Clearance for Hospital Component in Educational Campus

Is a Violation Case: Yes

1.Name of Project	M.M. Patel Public Charitable Trusts, Ashwini Rural Medical College, Hospital & Research Centre, Kumbhari, Solapur.
2.Type of institution	TOR
3.Name of Project Proponent	M.M. Patel Public Charitable Trusts
4.Name of Consultant	Ultra-Tech, Thane
5.Type of project	Hospital Project in Educational Campus
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No.
8.Location of the project	Gat No. 261-262(1-7) At Akkalkot Road, Kumbhari.
9.Taluka	Solapur
10.Village	Kumbhari
Correspondence Name:	M.M. Patel Public Charitable Trusts
Room Number:	Gat No. 261-262(1-7) At Akkalkot Road, Kumbhari.
Floor:	-
Building Name:	-
Road/Street Name:	Akkalkot Road
Locality:	-
City:	Solapur
11.Whether in Corporation / Municipal / other area	Gram Panchayat Kumbhari
12.IOD/IOA/Concession/Plan Approval Number	Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011 . Now Applied for Building permission from Town Planning, Solapur with builtup area 67,667.91m2 fir entire project. Out of which Hospital Component is 26,951.22Sq.m
	IOD/IOA/Concession/Plan Approval Number: Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011 Now Applied for Building permission from Town Planning, Solapur with builtup area 67,667.91m2 fir entire project. Out of which Hospital Component is 26,951.22Sq.m Hospital Building = 26,951.22Sq.m Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011 Earlier Consent to Operate was obtained from MPCB vide BO/CAC-Cell/CCA/CAC-177001171 dated 27.07.2017 Valid upto 31.05.2019 for Hospital of bed 500 nos. and Total Construction BUA (part) of 17,355 sq.m. (BUA was below 20,000 sq.m. i.e. 17,355 sq.m)
	Approved Built-up Area: 26951.22
13.Note on the initiated work (If applicable)	Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011 Earlier Consent to Operate was obtained from MPCB vide BO/CAC-Cell/CCA/CAC-177001171 dated 27.07.2017 Valid upto 31.05.2019 for Hospital of bed 500 nos. and Total Construction BUA (part) of 17,355 sq.m. (BUA was below 20,000 sq.m. i.e. 17,355 sq.m)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011 Now Applied for Building permission from Town Planning, Solapur with builtup area 67,667.91m2 fir entire project. Out of which Hospital Component is 26,951.22Sq.m
15.Total Plot Area (sq. m.)	110100 Sq.m
16.Deductions	16858.69 Sq.m
17.Net Plot area	93241.31 Sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 26,951.22Sq.m
	b) Non FSI area (sq. m.): -
	c) Total BUA area (sq. m.): 26951.22

18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 26951.22
	Approved Non FSI area (sq. m.): -
	Date of Approval: 21-05-2011
19.Total ground coverage (m2)	7510.88
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	8.05 % of plot area
21.Estimated cost of the project	486800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Hospital (560 beds)	04	15

23.Number of tenants and shops	560 beds
24.Number of expected residents / users	Patients -550, staff - 275 visitors - 550
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24m
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	Existing Hospital Building already constructed
30.Details of the demolition with disposal (If applicable)	No demolition involved.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Through tanker & Bore well
	Fresh water (CMD):	268 (Domestic + Flushing)
	Recycled water - Flushing (CMD):	Nil
	Recycled water - Gardening (CMD):	103 (On RG area of 7,900 sq.m. and Open play ground area of 37,195 sq.m.)
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	371
	Fire fighting - Underground water tank(CMD):	600 M3 capacity.
	Fire fighting - Overhead water tank(CMD):	100 M3 capacity
	Excess treated water	125
Wet season:	**Source of water**	Through tanker & Bore well
	Fresh water (CMD):	268 (Domestic + Flushing)
	Recycled water - Flushing (CMD):	Nil
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	268
	Fire fighting - Underground water tank(CMD):	600 M3 capacity.
	Fire fighting - Overhead water tank(CMD):	100 M3 capacity
	Excess treated water	228
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	182	00	182	18	0	18	164	0	164
Domestic	87	0	87	9	0	9	78	0	78
Gardening	103	0	103	103	0	103	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	150 to 200 mtrs below ground
	Size and no of RWH tank(s) and Quantity:	Nil
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	1 borewell with recharge pit is provided with recharge pit.
	Size of recharge pits :	3 m x 3 m
	Budgetary allocation (Capital cost) :	Rs. 5 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.5 Lacs/year
	Details of UGT tanks if any :	Domestic 700 me
35.Storm water drainage	**Natural water drainage pattern:**	1 no. of natural nalla is passing through the project premises. Site sloping from North to South.
	Quantity of storm water:	0.58 Cum/sec
	Size of SWD:	Depth 0.9 mtrs and Width 1.52 mtrs
Sewage and Waste water	**Sewage generation in KLD:**	241
	STP technology:	MMBR
	Capacity of STP (CMD):	1 no. 400 KLD *(Common for educational institute and hospital)
	Location & area of the STP:	as per plan
	Budgetary allocation (Capital cost):	60 lakh
	Budgetary allocation (O & M cost):	7 lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	nil
	Disposal of the construction waste debris:	not any
Waste generation in the operation Phase:	**Dry waste:**	150 kg/day
	Wet waste:	250 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	138 kg/day
	STP Sludge (Dry sludge):	36 kg/day
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	handed over to local body or is segregated and disposed off to recycler
	Wet waste:	vermicomposting
	Hazardous waste:	-
	Biomedical waste (If applicable):	handed over to CBMWTSDF
	STP Sludge (Dry sludge):	used as manure
	Others if any:	-
Area requirement:	**Location(s):**	ground
	Area for the storage of waste & other material:	60 sqm
	Area for machinery:	included in above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	8 lakh
	O & M cost:	3 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):	2
Capacity of the ETP:	2
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	Primary treatment
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	500 kVA DG	HSD @0.21 l/hr	1	4.4 m above ground	0.15	400 C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	0.21 l/hr	Not applicable	0.21 l/hr

41.Source of Fuel	through vendor
42.Mode of Transportation of fuel to site	by road

43.Green Belt Development	**Total RG area :**	7900 sqm + open play ground area 37195 sqm
	No of trees to be cut :	NA
	Number of trees to be planted :	1165
	List of proposed native trees :	as given below
	Timeline for completion of plantation :	one year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Polyalthia lomgifolia	ashoka	540	evergreen long leaf tree
2	Phylanthus officinalis	Awala	400	medicinal fruit bearing
3	Bouganvillea spectabilis	Kagadi phool	100	ornamental tree attracting bees
4	Syzigium cummini	Jambhul	200	Fruit bearing medicinal 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	tagar	2 feet	200
2	Hibiscus	2 feet	300
3	champak	2 feet	250

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	--
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	430 kVA
	During Operation phase (Demand load):	430 kVA
	Transformer:	500 kVA
	DG set as Power back-up during operation phase:	500kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar water heater

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	solar water heater	10%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	installed STP of capacity 400 CMD	Not applicable
Vermicomposting	Already operational	Not applicable
DG Set	Provided acaustic enclosure	Not applicable

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	--	--	--

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Waste water	STP	60	7
2	storm water	RWH	5	0.5
3	Solid waste	vermicomposting	8	3
4	BMW	handed over	--	3
5	landscape	RG area	15	2
6	environment monitoring	as per CPCB guidelines	--	1

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	9089 sqm
	Area per car:	12.5 m excluding driveway
	Area per car:	12.5 m excluding driveway
	Number of 2-Wheelers as approved by competent authority:	1434
	Number of 4-Wheelers as approved by competent authority:	298
	Public Transport:	Local buses
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	Earlier Consent to Operate was obtained from MPCB vide BO/CAC-Cell/CCA/CAC-177001171 dated 27.07.2017 Valid upto 31.05.2019 for Hospital of bed 500 nos. and Total Construction BUA (part) of 17,355 sq.m. (BUA was below 20,000 sq.m. i.e. 17,355 sq.m)
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
2. Type of institution	TOR	Private
4. Name of Consultant	Ultra-Tech, Thane	ULTRA TECH, NABET/EIA/1720/RA0094

12. IOD/IOA/Concession/Plan Approval Number	Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011. Now Applied for Building permission from Town Planning, Solapur with built-up area 67,667.91m2 fir entire project. Out of which Hospital Component is 26,951.22Sq.m	Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011. Now Applied for Building permission from Town Planning, Solapur with built-up area 67,667.91m2 for entire project. Out of which Hospital Component is 30,381.85 Sq.m
12. IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011 Now Applied for Building permission from Town Planning, Solapur with built-up area 67,667.91m2 fir entire project. Out of which Hospital Component is 26,951.22Sq.m Hospital Building = 26,951.22Sq.m Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011 Earlier Consent to Operate was obtained from MPCB vide BO/CAC-Cell/CCA/CAC-177001171 dated 27.07.2017 Valid up to 31.05.2019 for Hospital of bed 500 nos. and Total Construction BUA (part) of 17,355 sq.m. (BUA was below 20,000 sq.m. i.e. 17,355 sq.m)	IOD/IOA/Concession/Plan Approval Number: Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011. Now Applied for Building permission from Town Planning, Solapur with built-up area 67,667.91m2 for entire project. Earlier Consent to Operate was obtained from MPCB vide BO/CAC-Cell/CCA/CAC-177001171 dated 27.07.2017. For Hospital of bed 300 nos. and Total Construction BUA (part) of 17,355 sq.m. (BUA was below 20,000 sq.m. i.e. 17,355 sq.m)
14. LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Building Permission obtained from local body (Gram Panchayat Kumbhari) Dated 21/05/2011 Now Applied for Building permission from Town Planning, Solapur with built-up area 67,667.91m2 fir entire project. Out of which Hospital Component is 26,951.22Sq.m	Not applicable
18 (a) Proposed Built-up Area (FSI & Non-FSI)	Non FSI area (sq. m.): - , Total BUA area (sq. m.): 26951.22	Non FSI area (sq. m.): 3,430.63, Total BUA area (sq. m.): 30,381.85
18(b) Approved Built up area as per DCR	Approved FSI area (sq. m.): 26951.22, Approved Non FSI area (sq. m.): -	Approved FSI area (sq. m.): 26,951.22, Approved Non FSI area (sq. m.): 3,430.63
22.Number of buildings & its configuration	Serial number - 1, Building Name - Hospital (560 beds), No. of Floors - 04, Height of the building (Mtrs) - 15	Serial number - 1, Building Name - Hospital (560 beds), No. of Floors - G+4, Height of the building (Mtrs)- 15
29. Existing structure (s) if any	Existing Hospital Building already constructed	Ashwini Rural Medical College, Hospital & Research Centre - Hospital Component in Educational Campus of built up area 30,381.85 m2 had already been constructed.
34. Rain Water Harvesting (RWH) - Quantity of recharge pits:	1 bore well with recharge pit is provided with recharge pit.	2 no. of recharge pits
44. Green Belt Development - Number of trees to be planted :	1165	1026 Nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - Polyalthia lomgifolia, Common Name - Ashoka, Characteristics & Ecological Importance - Evergreen long leaf tree, Quantity - 540 nos.	Botanical Name - Vachellia nilotica, Common Name - Babul, Characteristics & Ecological Importance - Medicinal use, Quantity - 15 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - Phylanthus officinalis, Common Name - Awala, Characteristics & Ecological Importance - medicinal fruit bearing, Quantity - 400 nos.	Botanical Name - Peltophorum pterocarpum, Common Name - Copper pod, Characteristics & Ecological Importance - Evergreen Tree, Ornamental value, medicinal & agroforestry use, Quantity - 185 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - Bouganvillea spectabilis, Common Name - Kagadi phool, Characteristics & Ecological Importance - ornamental tree attracting bees, Quantity - 100 nos.	Botanical Name - Alstonia scholaris, Common Name - Saptparni, Characteristics & Ecological Importance - Medicinal use, anti-bacterial properties, Quantity - 225 nos.

45. Number and list of trees species to be planted in the ground	Botanical Name - Syzigium cummini, Common Name - Jambhul, Characteristics & Ecological Importance - Fruit bearing medicinal tree, Quantity - 200 nos.	Botanical Name - Delonix regia, Common Name - Gulmohar, Characteristics & Ecological Importance - Native trees and ornamental value, Quantity - 100 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Ficus benjamina, Common Name - Weeping fig, Characteristics & Ecological Importance - Medicinal & agroforestry use, Quantity - 50 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Azadirachta indica, Common Name - Kadu Neem, Characteristics & Ecological Importance - Drought resistance, anti-desertification properties and medicinal use, Quantity - 230 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Ficus racemosa, Common Name - Audumber, Characteristics & Ecological Importance - medicinal use, Quantity - 05 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Ficus religiosa, Common Name - Pipal, Characteristics & Ecological Importance - Tree with wide-spreading crown (Shade tree), Medicinal Use, Quantity - 01 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Ficus benghalensis, Common Name - Banyan tree, Characteristics & Ecological Importance - Shade tree, medicinal use & cultural importance, Quantity - 09 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Cocos nucifera, Common Name - Coconut, Characteristics & Ecological Importance - Medicinal value & edible fruit, Quantity - 04 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Saraca asoca, Common Name - Ashoka, Characteristics & Ecological Importance - Health benefits and native tree, Quantity - 50 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Spathodea campanulata, Common Name - Pechkari flame, Characteristics & Ecological Importance - Ornamental value & medicinal value, Quantity - 38 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Mangifera indica, Common Name - Mango, Characteristics & Ecological Importance - Evergreen & fruit bearing tree; and medicinal use, Quantity - 07 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Michelia champaca, Common Name - Son chafa, Characteristics & Ecological Importance - Evergreen tree, has commercial value & possesses various pharmacological activities like anti-microbial, anti-oxidant, anti-diabetic, anti-ulcer, Quantity - 20 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Samanea saman, Common Name - Rain tree, Characteristics & Ecological Importance - Shade tree, cultivated for its timber and as food, medicine, and gums among others, Quantity - 60 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Dalbergia sissoo, Common Name - Shisham, Characteristics & Ecological Importance - Used as firewood, timber, poles, posts, tool handles, fodder, erosion control and as a windbreak. Oil is extracted from the seed and tannin from the bark, Quantity - 10 nos.

45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Pongamia glabra, Common Name - Karanj, Characteristics & Ecological Importance - Shade tree. Multipurpose tree - particularly valued for its oil & also supplies dyestuff, wood, fuel, insect repellent, medicines and various other commodities, Quantity - 06 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Anthocephallus cadamba, Common Name - Kadam, Characteristics & Ecological Importance - medicinal use, Quantity - 01 nos.
45. Number and list of trees species to be planted in the ground	Botanical Name - -, Common Name - -, Characteristics & Ecological Importance - -, Quantity - -.	Botanical Name - Hyophorbe lagenicaulis, Common Name - Bottle palm, Characteristics & Ecological Importance - Ornamental Use, Quantity - 10 nos.
47.Number and list of shrubs and bushes species to be planted in the podium RG:	Name - tagar, C/C Distance - 2 feet, Area m2 - 200	Name - Alpinia purpurata, C/C Distance - 3420 feet, Area m2 --
47.Number and list of shrubs and bushes species to be planted in the podium RG:	Name - Hibiscus, C/C Distance - 2 feet, Area m2 - 300	Name - Ixora coccinea, C/C Distance - 3420 feet, Area m2 --
47.Number and list of shrubs and bushes species to be planted in the podium RG:	Name - champak, C/C Distance - 2 feet, Area m2 - 250	Name - Schefflera arboricola, C/C Distance - 3518 feet, Area m2 --
47.Number and list of shrubs and bushes species to be planted in the podium RG:	Name - -, C/C Distance - -, Area m2 --	Name - Acalypha wilkesiana, C/C Distance - 5342 feet, Area m2 --
47.Number and list of shrubs and bushes species to be planted in the podium RG:	Name - -, C/C Distance - -, Area m2 --	Name - Allamanda cathartica, C/C Distance - 3000 feet, Area m2 --
47.Number and list of shrubs and bushes species to be planted in the podium RG:	Name - -, C/C Distance - -, Area m2 --	Name - Duranta erecta, C/C Distance - 3000 feet, Area m2 --
47.Number and list of shrubs and bushes species to be planted in the podium RG:	Name - -, C/C Distance - -, Area m2 --	Name - Tabernaemontana divaricata, C/C Distance - 1600 feet, Area m2 --
47.Number and list of shrubs and bushes species to be planted in the podium RG:	Name - -, C/C Distance - -, Area m2 --	Name - Alpinia variegta, C/C Distance - 3400 feet, Area m2 --
47.Number and list of shrubs and bushes species to be planted in the podium RG:	Name - -, C/C Distance - -, Area m2 --	Name - Alocasia cucullata, C/C Distance - 1200 feet, Area m2 --
47.Number and list of shrubs and bushes species to be planted in the podium RG:	Name - -, C/C Distance - -, Area m2 --	Name - Rhapis excelsa,, C/C Distance - 2645 feet, Area m2 --
47.Number and list of shrubs and bushes species to be planted in the podium RG:	-	Shrubs and bushes species had been planted on the ground(virgin land).

52.Environmental Management plan Budgetary Allocation - b) Operation Phase (with Break-up):	-	Serial Number - 7, Component - RO Unit, Description - Cost of RO Units, Capital cost Rs. In Lacs - 06, Operational and Maintenance cost (Rs. in Lacs/yr) - 0.2
52.Environmental Management plan Budgetary Allocation - b) Operation Phase (with Break-up):	-	Serial Number - 8, Component - Total, Description - -, Capital cost Rs. In Lacs - 94, Operational and Maintenance cost (Rs. in Lacs/yr) - 16.7

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP submitted their application for prior Environmental clearance for total plot area of 110100 m2, FSI area of 26,951.22 m2, Non FSI area of 3,430.63 m2 and total BUA of 30,381.85 m2.

Now, the PP has applied as per the MoEF&CC Notification dated 14/03/2017 and 8/03/2018. The PP informed that the total constructed area on site is: 30,381.85 m2.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(a)b2.

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF & CC circular dated 1/05/2018 along with details of fund utilization & agreement or consent of executor.

2. PP to submit detailed disaster management plan incorporating lightening arrester plan.

3. PP to submit details of Source of water for different identified purposes with the permissions required from the concerned authorities, both for surface water and the ground water (by CGWA) as the case may be, Rain water harvesting, etc.

4. PP to submit details of existing trees, proposed to be cut, proposed to be transplanted along with tree survival report.

5. PP to submit details of Management of solid waste and the construction & demolition waste for the project vis-a-vis the Solid Waste Management Rules 2016 and the Construction & Demolition Rules, 2016. 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 provide the detailed solid waste management plan along with marked locations on the master plan. Design details of waste processing equipment such as OWC/biogas plants confirming to the technical requirements to meet the quality products.

6. PP to submit details of Waste water management (treatment, reuse and disposal) for the project and also the study area. 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

7. PP to show internal storm water drain and sewer line arrangements up to final disposal point.

8. Separate chapter on Renewable energy in EIA report. PP to submit terrace plan for installing solar panels& calculations of energy saving; Energy efficient measures (LED lights, solar power, etc.) during construction as well as during operational phase of the project. Report on ECBC compliance.

9. Provide details of Solar PV and Solar water heater in the specific format. PP to carryout shadow analysis for identifying the roof-top area for providing solar panels

10. Environmental status report including analysis reports of all environmental pollution reduction facilities if any commissioned.

11. PP to submit site specific, executable and auditable environment management plan (EMP)

12. Provide details of Estimation of Carbon footprint of the project.

13. Provide details of Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection of data and sample analysis shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986 or Environmental Laboratory accredited by NABL, or a laboratory of council of Scientific and Industrial Research (CSIR) institution working in the field of environment.

14. Provide details of 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.

15. Provide details of Preparation of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.

16. NOC's required: a) CFO NOC, b)Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.

17. Undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

103 SEAC-3 day 04

SEAC Meeting number: 103 **Meeting Date** February 14, 2020

Subject: Environment Clearance for Environmental clearance for Proposed Residential Project "Liviano" S.No 18 H. No.1+2+3, S.No. 19 H.No. 1+2, Kharadi ,Pune

Is a Violation Case: No

1.Name of Project	Liviano
2.Type of institution	Private
3.Name of Project Proponent	M/s. Goel Ganga Landmarks LLP
4.Name of Consultant	Vke:environmental LLP
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, SEAC-2010/CR 735/TC-11, 16 January 2016
8.Location of the project	S.No 18 H. No.1+2+3, S.No. 19 H.No. 1+2
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	Mr. Sanjeev Gaikwad
Room Number:	-
Floor:	Ground Floor
Building Name:	San Mahu Comlex
Road/Street Name:	Bund Garden Road
Locality:	Opp. Poona Club
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	IOD
	IOD/IOA/Concession/Plan Approval Number: Applied
	Approved Built-up Area: 120054.71
13.Note on the initiated work (If applicable)	Building A-P+14,Building B-P+13, Building C-P+13, Building D-P+13.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	32000 sq.m
16.Deductions	0.00
17.Net Plot area	32000 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 59,510.54
	b) Non FSI area (sq. m.): 60544.17
	c) Total BUA area (sq. m.): 120054
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 59,510.54
	Approved Non FSI area (sq. m.): 60544.17
	Date of Approval: 19-09-2019
19.Total ground coverage (m2)	17747.86
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	55%
21.Estimated cost of the project	1650000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	P+14	49.03
2	Building B	P+13	42.93
3	Building C	P+13	42.93
4	Building D	P+13	42.93
5	Building E	B+P+21	66.75
6	Building F	B+P+21	66.75
7	Building G	B+P+21	66.75
8	Club House	P+G+1	11.34

23.Number of tenants and shops	707 NOs
24.Number of expected residents / users	3535 nos
25.Tenant density per hectare	209
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Amanora Hadapsar Fire Station-4.9 km from proposed site, 18m wide road is existing from nearest fire station for proposed site
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m for access of fire tender movement
29.Existing structure (s) if any	Building A-P+14, Building B-P+13, Building C-P+13, Building D-P+13
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):	319
	Recycled water - Flushing (CMD):	159
	Recycled water - Gardening (CMD):	39.00
	Swimming pool make up (Cum):	5.45
	Total Water Requirement (CMD) :	517
	Fire fighting - Underground water tank(CMD):	525
	Fire fighting - Overhead water tank(CMD):	140
	Excess treated water	211
Wet season:	**Source of water**	PMC/Recycled water from STP
	Fresh water (CMD):	319
	Recycled water - Flushing (CMD):	159
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	5.45
	Total Water Requirement (CMD) :	478
	Fire fighting - Underground water tank(CMD):	525
	Fire fighting - Overhead water tank(CMD):	140
	Excess treated water	250
Details of Swimming pool (If any)	"Swimming Pool Details- Main Swimming pool=15 mX 5.5m X 1.2 m Depth, Baby swimming pool - 4 Mx 2.5m x 0.85 m Depth Capacity-108 CuM Make up water-2 CuM"	

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	96	223	319	9.6	22.3	31.9	86.4	200.7	287.1
Domestic	69	161	230	6.9	16.1	23	62.1	144.9	207

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	25 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	23 Nos
	Size of recharge pits :	1.5mx1.5mx1.5m
	Budgetary allocation (Capital cost) :	26 Lac
	Budgetary allocation (O & M cost) :	1.2 Lac/annum
	Details of UGT tanks if any :	UGT-1 Drinking- 40 Cum Domestic- 103 Cum Fire- 225 Cum UGT-2 Drinking- 93 Cum Domestic- 241 Cum Fire- 300 Cum
35.Storm water drainage	**Natural water drainage pattern:**	As per contour slope
	Quantity of storm water:	0.49 m3/sec
	Size of SWD:	450 mm x 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	430 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	STP-1 Capacity -270 KLD, STP-2 Capacity - 185 KLD
	Location & area of the STP:	As Per Master Layout
	Budgetary allocation (Capital cost):	STP-1 - 56.65 Lakh, STP-2- 43 lakh
	Budgetary allocation (O & M cost):	STP-1 -12 Lakh/Annum, STP-2 -11.50Lakh/Annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Empty cement bags, steel, sand, packaging material, Aggregates
	Disposal of the construction waste debris:	Excavated earth material will be used for filling of plinth area
Waste generation in the operation Phase:	**Dry waste:**	707 kg/day
	Wet waste:	1061kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP1- 39.96 kg/day, STP 2-.27.38 kg/day
	Others if any:	NA

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:	NA
Area requirement:	**Location(s):**	Locations are as per master layout
	Area for the storage of waste & other material:	24.5 Sqm
	Area for machinery:	65.5 Sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	29.75 Lacs
	O & M cost:	6.80 Lacs/year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.0-8.5	6.5-9.0	6.5-9.0
2	Oil & Grease	mg/l	10.00-20.00	<10	<10
3	Biological Oxygen Demand	mg/l	200-250	<10	<10
4	Chemical Oxygen Demand	mg/l	350-450	<50	<50
5	Total Suspended Solid	mg/l	150-200	<10	<10
6	Total Nitrogen	mg/l	40-50	<10	<10
7	Nitrate	mg/l	15-16	<5	<5
8	Dissolve PO4	mg/l	13-15	<5	<5
9	Fecal Coliform	MPN/100 ml	10^6	Nil	Nil

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	HSD	1	5	0.152m	532 ºC
2	250 KVA	HSD	1	5	0.152m	499 ºC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	146.1 itre/hr @100%	146.1 litre/hr @100%
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 :**	3200 Sq.M.
	No of trees to be cut :	00
	Number of trees to be planted :	403
	List of proposed native trees :	Shirish,Neem,Maharukh,Karanj,Sita Ashoka,r,Bahava,Bakul
	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	Saraca ashoka	Sita Ashoka	28	Shady trees with yellow flowers
2	Butea monosperma	Palas	17	Medium sized deciduous tree,Beautiful orange flowers, Butterfly host plant
3	Cryota urens	Fish tail palm	18	Large tree, good for roadside plantation.attractive
4	Nyctanthus arbor-tritrits	Parijatak	18	Fragrant flowers, Medicinal value
5	Plumeria rubra	Chafa	16	Ornamental plant, Fragrant flowers
6	Gmelina arborea	Shivan	17	Fast growing deciduous tree with yellow flower, medical use tree
7	Albizzia lebbeck	Shirish tree	26	Large tree, good for roadside plantation
8	Moringa oleifera	Drumstick tree	14	Medicinal value, Drought tolerant species,fruite bearing
9	Ficus racemosa	Umber	22	Medicinal value, Edible fruits,Bird attracting species
10	Mimusops elengi	Bakul	17	sweet scented flowers, medicinal tree with edible parts
11	Manilkara zapota	Chiku	10	Medium sized Fruit Bearing Tree
12	Annona squaosa	Sitafal	18	Medium sized Fruit Bearing Tree
13	Ailanthus excelsa	Maharukh	21	Large tree, good for roadside plantation

14	Tamarindus indica	Leguminous tree	14	Shady, large tree, Fruite bearing tree
15	Bauhinia racemosa	Bidi leaf tree	16	Medium sized deciduous tree.
16	Murrayya paniulate	Kunti	19	Small tree, Fragrant white flowers, Butterfly host plant
17	Azadirachta indica	Neem	15	Medicinal value
18	Cupressus macrocarpa	Golden cypress	15	Ornamental plant
19	Lagestromia Flosre Genia	Tamhan	19	State flower tree of Maharashtra, Medium sized tree, beautifulpurple flowers
20	Ficus carica	Fig Tree	18	Medium sized Fruit Bearing Tree
21	MagniferaIndica	Mango	25	Large tree, Fruit Bearing Tree
22	Syzygium cumini	Jambhul	8	Fast growing evergreen trees, can live more than 100 years, fragrant flowers, edible fruits
23	Bauhinia semla	White orchid tree	12	medium tree, white flowers.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	116 KVA
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	5096 KW
	During Operation phase (Demand load):	2742 KVA
	Transformer:	(630 KVA X 5) NOS, (315 KVA X 1) NO
	DG set as Power back-up during operation phase:	400KVA X 1 NOS. + 250 KVA X 1 NOS.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Enter Details Quantity
Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area. 95143 KWH
Energy saving using Low Loss Transformer Against Conventional Transformer 21024 KWH
Energy Saving using Solar Water Heater Against Electrical water Heater 559944 KWH
Energy Saved by Solar PV 54000 KWH
Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control 80332 KWH
Energy Saved by Using VFD for Lift against convensional drive 125195 KWH
Total Energy Saving in Project by Energy saving measures 935638 KWH

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area.	34.53%
2	Energy saving using Low Loss Transformer Against Conventional Transformer	5.26%
3	Energy Saving using Solar Water Heater Against Electrical water Heater	75.34%
4	Energy Saved by Solar PV	1.37%
5	Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control	43.16%
6	Energy Saved by Using VFD for Lift against convensional drive	20.00%
7	Total Energy Saving in Project by Energy saving measures	16.69%

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:**	162 Lacs
	O & M cost:	4 Lacs/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	3.50
2	Water Environment	"Tanker Water For Construction & Water Monitoring"	3.75
3	Land Environment	"Site Sanitation, mobile toilets"	0.85
4	Socio-Economic	"Disinfection- Pest Control, First Aid Facilities, Health Check Up, Personal Protective Equipment"	2.50
5	Monitoring Cell	Environmental Monitoring Cell	3.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Waste water treatment	99.65	23.5
2	Rain Water Harvesting	23 No of pits	26	1.2
3	Solid Waste Management	"Biodegradable waste treatment"	29.75	6.80
4	Landscape	"Green Belt Development "	21.55	1.09
5	Energy	Enegy saving measures	162	3.00
6	Environmental Monitoring	"Ambient Air quality, Noise level, Exhaust from DG Set, drinking water,sewage from STP as per EP act,"	-	1.50

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Traffic generated from this project will confluent on existing 21m wide road

Parking details:	**Number and area of basement:**	1 no Basements, 10768.04 SQ.M
	Number and area of podia:	1 No Podium, 4497.88 sq.m
	Total Parking area:	32115.4 sq.m
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1609 nos
	Number of 4-Wheelers as approved by competent authority:	854 nos
	Public Transport:	Sainath Nagra Bus stop
	Width of all Internal roads (m):	6 m internal road
	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

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-

Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	-
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

PP had submitted application for prior Environmental clearance stating following details:

Applied for	Expansion in existing	
Details of previous EC	SEAC-2010/CR 735/TC-II, 16th January 2016	
Location of the project	S.No.18 H.No.1+2+3, S.No.19 H.No.1+2, Kharadi, Taluka Haveli, Pune,	
Latitude and Longitude	Lat-18º32'24.00''N, Long- 73º56'11.97''E	
Total Plot Area (m2)	32,000.00 Sq.m	
Deductions (m2)	00	
Net Plot area (m2)	32,000.00 Sq.m	
Proposed FSI area (m2)	61,581.27 Sq. m	
Proposed non-FSI area (m2)	59,986.79 Sq.m	
Proposed TBUA (m2)	1,21,568.06 sq.m	
TBUA (m2) approved by	1,21,568.06 sq.m	
Planning Authority till date		
Ground coverage (m2) & %	17747.86	
Total Project Cost (Rs.)	165,00,00,000.00	

Building Configuration:

Previous EC / Existing Building			Proposed Configuration		
Building Name	Configuration	Height (m)	Building Name	Configuration	Height (m)
Building A	P+14	49.03	Building A	P+14	49.03
Building B	P+13	42.93	Building B	P+13	42.93
Building C	P +13	42.93	Building C	P +13	42.93
Building D	P+13	42.93	Building D	P+13	42.93
Building E	B+P+21	66.75	Building E	B+P+21	66.75
Building F	B+P+21	66.75	Building F	B+P+21	66.75
Building G	B+P+21	66.75	Building G	B+P+21	66.75
Club House	P+G+1	11.34	Club House	P+G+1	11.34

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

During discussion following points emerged:

1. PP to submit Architect's Certificate stating buildingwise construction work carried out till date (FSI+nonFSI).

2. PP to submit contour plan of the plot where excess debris about 20000 m3 is proposed to be disposed along with cross sectional plan showing the filling.

3. PP to calrify any natural watercourse is/are passing through the plot.

4. PP to submit details of OWC.

5. PP to obtain and submit following NOC's: (a) CFO NOC, (b) Water supply with quantity, (c) Drainage NOC. (d) Aviation NOC. (e) Garden NOC.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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