102 SEAC-3 meeting day 01

SEAC Meeting number: 102 **Meeting Date** January 22, 2020

Subject: Environment Clearance for Proposed Group Housing Scheme by M/s Sandesh Infrastructure Pvt. Ltd.

Is a Violation Case: Yes

1.Name of Project	Proposed Group Housing Scheme
2.Type of institution	TOR
3.Name of Project Proponent	Mr Dilip Agrawal
4.Name of Consultant	M/s. Ultra-Tech (Environmental Consultancy & Laboratory) Lab Gazetted by MoEf - Govt. Of India. NABET Certificate no: NABET/EIA1417/SA011
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Kh. no. 167/2 & 168
9.Taluka	Nagpur (Gramin)
10.Village	Mouza Jamtha
Correspondence Name:	Mr Dilip Agrawal
Room Number:	NA
Floor:	4th floor
Building Name:	Landmark Building
Road/Street Name:	Wardha road
Locality:	Above Big bazaar
City:	Nagpur
11.Whether in Corporation / Municipal / other area	Nagpur Metropolitan Area
12.IOD/IOA/Concession/Plan Approval Number	Obtained Certificate vide Letter No 3583 Dated 08.09.2010
	IOD/IOA/Concession/Plan Approval Number: 3583
	Approved Built-up Area: 58035.080
13.Note on the initiated work (If applicable)	Construction work has been initiated as per sanction received dated vide letter no. 3583 dated 8/9/10 and 52,939.985 m2 of BUA (FSI + Non FSI) is constructed on site
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	86900.00
16.Deductions	12220.99
17.Net Plot area	74679.01
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 50190.466
	b) Non FSI area (sq. m.): 7844.614
	c) Total BUA area (sq. m.): 58035.080
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 56009.25
	Approved Non FSI area (sq. m.): 7844.614
	Date of Approval: 08-09-2010
19.Total ground coverage (m2)	13507.77
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	15.5%
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	Semi Detached Bungalow (A Type) 1-36 & 38-91	G + 1	7.5
2	Detached Bungalow (A Type)	G + 1	7.5
3	Residential (B Type)	G + 1	7.5
4	Building No 1 2BHK (C Type)	S + 7	23.95
5	Building No 1 2 BHK (D Type)	S + 7	23.95
6	Building No 2 2 BHK (C Type)	S + 7	23.95
7	Building no 3 2 BHK (D Type)	S + 7	23.95
8	Building no 4 1 BHK (E Type)	S + 7	23.95

23.Number of tenants and shops	163 Bungalows; 4 buildings having 14 wings
24.Number of expected residents / users	Residential user: 2985 No.
25.Tenant density per hectare	335
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: 6.00 Km away from proposed site Width of the road from the nearest fire station to the proposed building 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	Construction work has been initiated as per sanction received dated vide letter no. 3583 dated 8/9/10 and 52,939.985 m2 of BUA (FSI + Non FSI) is constructed on site; Construction Details = Semi Detached Bungalow (A Type) 1-36 & 38-91 – G+1 –90 stand complete; Detached Bungalow (A Type) – G+1 – 1 stand complete; Residential (B Type) – G+1 – 72 stand complete; Building No 1 – 2BHK (C Type) – S+7 – 2 stand complete; Building No 1 – 2 BHK (D Type) – S+7 – 4 stand complete; Building No 2 – 2 BHK (C
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**	MIHAN
	Fresh water (CMD):	269
	Recycled water - Flushing (CMD):	134
	Recycled water - Gardening (CMD):	131
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	534
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	61
Wet season:	**Source of water**	MIHAN
	Fresh water (CMD):	269
	Recycled water - Flushing (CMD):	134
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	403
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	192
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	269	Not applicable	269	54	Not applicable	54	215	Not applicable	215
Domestic	134	Not applicable	134	00	Not applicable	00	134	Not applicable	134
Gardening	45	Not applicable	45	45	Not applicable	45	00	Not applicable	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	12 nos
	Size of recharge pits :	Ø4 m x 3.8m
	Budgetary allocation (Capital cost) :	Rs. 45 lakh
	Budgetary allocation (O & M cost) :	Rs. 0.9 lakh
	Details of UGT tanks if any :	Fire Fighting - 200 CMD
35.Storm water drainage	**Natural water drainage pattern:**	South to North
	Quantity of storm water:	64.50 m3/min
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	376
	STP technology:	MBBR
	Capacity of STP (CMD):	390
	Location & area of the STP:	South Side of the plot
	Budgetary allocation (Capital cost):	Rs. 125 lakh
	Budgetary allocation (O & M cost):	Rs. 15 lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Waste generation: 26kg/day
	Disposal of the construction waste debris:	This material shall be used for back filling and leveling of the plot.
Waste generation in the operation Phase:	**Dry waste:**	537 Kg/day
	Wet waste:	806 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	56 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorized vendor.
	Wet waste:	Will be treated in Organic waste converter
	Hazardous waste:	Will be handed over to authorized hazardous waste management
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure for landscaping after treatment.
	Others if any:	NA
Area requirement:	**Location(s):**	South – East
	Area for the storage of waste & other material:	150 m2
	Area for machinery:	50 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 35 Lakhs
	O & M cost:	Rs. 07 Lakhs/yr

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	260 KVA - 4 No	HSD 38Ltr/Hr.	4 Nos.	4.5	0.0125	450°
2	65 KVA -1 No	HSD 8Ltr/Hr.	1 Nos.	4.5	0.0125	450°
3	125 KVA -1 No	HSD 18Ltr/Hr.	1 Nos.	4.5	0.0125	450°

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	64Ltr/Hr.	Not applicable	64Ltr/Hr.
41.Source of Fuel		Authorized Vendor		

42.Mode of Transportation of fuel to site	By road

43.Green Belt Development	**Total RG area :**	17994.68 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	933
	List of proposed native trees :	933
	Timeline for completion of plantation :	Till the completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Manilkara zapota	Chiku	95	Fruit bearing tree
2	Mangifera indica	Mango	110	Fruit bearing tree
3	Neolamarkia cadamba	Kadamb	45	Ornamental tree
4	Milingtonia hortensis	AkashNeem	75	Ornamental and timber tree
5	Cassia fistula	Amaltas	105	Medicinal and ornamental plant
6	Azadirachta indica	Neem	75	Medicinal tree
7	Albizia lebbeck	Siris	75	Timber species
8	Bauhinia variegate	Kachnar	75	Medicinal tree
9	Kigelia pinnata	Sausage Tree	100	Medicinal tree
10	Ficus religiosa	Peepal tree	50	Medicinal tree
11	Prosopis cineraria	Shami tree	60	Animal feed and good fuel
12	Bambusa vulgaris	Golden Bamboo	68	Timber, fuel, fodder giving plant
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	Power Supply from MSEDCL
	During Operation phase (Connected load):	3714 KW
	During Operation phase (Demand load):	1728.52 KW
	Transformer:	315 kVA – 6 No; 200 kVA – 3 No
	DG set as Power back-up during operation phase:	4 Nos. x 280 KVA;1 Nos. x 65 KVA; 1 Nos. x 125 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Auto Timer control for external & Common lighting
Solar powered water heating
Solar PV Panels for common area lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Auto Timer control for external & Common lighting	0.4%
2	Solar powered water heating	18.1%
3	Solar PV Panels for common area lighting	10%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Domestic Sewage	STP Capacity 390 CMD	Not applicable
Domestic Solid Waste	OWC Capacity 800 Kg/day	Not applicable
DG Set - 4 Nos. x 280 KVA; 1 Nos. x 65 KVA; 1 Nos. x 125 KVA	Stack	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 105 Lakhs
	O & M cost:	Rs. 4.5 Lakhs/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	Ambient Air quality; Noise Level	PM10,PM2.5,SO2, NOX, CO; Equivalent noise level	1.33
2	Exhaust from DG Set	PM10,PM2.5,SO2, NOX, CO	0.06
3	Drinking Water	pH, Temperature, EC, Turbidity, Total dissolved solids, Calcium, Magnesium Total hardness, Chlorides, Sulphates, Nitrates, DO, COD, BOD, Iron, Zinc Manganese (Physico-chemical and bacteriological parameters as per the source and utilization of water)	0.04
4	Sewage from STP As per EP act	pH, BOD,COD ,TSS ,O & G Colour and Odour, SS, Particulate size of suspended solids, pH, Temp, O& G ,Ammonium N, Total Kjeldahl Nitrogen ,Free ammonia ,BOD, COD, AS, Hg, Pb, Cr+6, Cr, Cu, Ni, CN, F, Dissolved Phosphates ,Sulphide ,C6H5OH , Manganese, Fe, V, Nitrate Nitrogen.	0.31
5	Manure	pH, Conductivity, Colour, Bulk Density, Organic Carbon, Total Nitrogen as N ,Total Phosphate as P2O5,Total Potash as K2O,C:N ratio, Moisture Content	0.20

b) Operation Phase (with Break-up):				
Serial Number	**Component**	**Description**	**Capital cost Rs. In Lacs**	**Operational and Maintenance cost (Rs. in Lacs/yr)**
1	Environmental Monitoring	Ambient Air quality, Noise Level, Exhaust from DG Set, Drinking Water, Sewage from STP, As per EP act, Manure	NA	9.0
2	Storm Water	RWH	45	0.9
3	Sewage	STP	125	15
4	Energy Saving	Solar Water Heating + PV	105	4.5

5	Land Environment	Gardening	50	2
6	Solid waste management	OWC	35	7

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 24m wide road.
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	5072.34 m2
	Area per car:	12.5 m2/car
	Area per car:	12.5 m2/car
	Number of 2-Wheelers as approved by competent authority:	SCOOTERS : 203, CYCLES : 281
	Number of 4-Wheelers as approved by competent authority:	200
	Public Transport:	CITY TRANSPORT BUSES (STAR BUSES) OPERATE FROM SITE TO CITY
	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	Category 8 (a) B2 as per EIA Notification dated 14th September 2006 and Category A – as per SO. 804(E) dt 14th March 2017

	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	11-07-2017

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
2. Type of institution	TOR	Private
4.Name of Consultant	M/s. Ultra-Tech (Environmental Consultancy & Laboratory) Lab Gazetted by MoEf - Govt. Of India. NABET Certificate no: NABET/EIA1417/SA011	M/s. ULTRA TECH - NABET/EIA/1720/RA0094
11.Area of the project	Nagpur Metropolitan Area	NMRDA
13.Note on the initiated work (If applicable)	Construction work has been initiated as per sanction received dated vide letter no. 3583 dated 8/9/10 and 52,939.985 m2 of BUA (FSI + Non FSI) is constructed on site	Construction work has been initiated as per building sanctioned received dated vide letter no.3583 dated 8/9/10 from Town Planning and Valuation Department Branch office Nagpur and built up area completed is about 55,805.40 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA	Sanctioned vide letter no. 3583 dated 8/9/10 from Town Planning and Valuation Department Branch office Nagpur
25.Tenant density per hectare	335	140
26.Height of the building(s)	-	23.95 m
29.Existing structure (s) if any	Construction work has been initiated as per sanction received dated vide letter no. 3583 dated 8/9/10 and 52,939.985 m2 of BUA (FSI + Non FSI) is constructed on site; Construction Details = Semi Detached Bungalow (A Type) 1-36 & 38-91 – G+1 –90 stand complete; Detached Bungalow (A Type) – G+1 – 1 stand complete; Residential (B Type) – G+1 – 72 stand complete; Building No 1 – 2BHK (C Type) – S+7 – 2 stand complete; Building No 1 – 2 BHK (D Type) – S+7 – 4 stand complete; Building No 2 – 2 BHK (C	Construction work has been initiated as per sanctioned received from Town Planning and Valuation Department Branch office Nagpur dated vide letter no. 3583 dated 8/9/10 and 55805.40, m2 BUA (FSI + Non FSI) has been constructed on site; Construction Details = RH (G+1) - 72 stand completed Semi Detached Bungalow (G+1) & Detached Bungalow (A Type) SD 37 - 91 stand complete Building No. 1 – 2BHK (C Type) – S+7 – completed Building No 1 – 2 BHK (D Type) – S+7 – completed; Building No 2 – 2 BHK (C type) S+7 – completed; Building No 3– 2 BHK (D type) S+7 – completed; (2 buildings completed and 2 buildings are in under construction) Building No 4– 1 BHK (E type) S+7 – completed;
32. Total Water Requirement - Source of water	Source of water - MIHAN	Source of water - MADC or local body
32. Total Water Requirement - Dry season:	Total Water Requirement (CMD) : 534	Total Water Requirement (CMD) : 403

32. Total Water Requirement - Wet season:	Recycled water - Gardening (CMD): 00	Recycled water - Gardening (CMD): 66
32. Total Water Requirement - Wet season:	Excess treated water (CMD) : 192	Excess treated water (CMD): 126
34. Rain Water Harvesting (RWH)	Level of the Ground water table: 5 m	Level of the Ground water table: 50 m - 60 m
34.Rain Water Harvesting (RWH)	Quantity of recharge pits: 12 nos.	Quantity of recharge pits: 3 nos.
34.Rain Water Harvesting (RWH)	Budgetary allocation (Capital cost) : Rs.45 lakh	Budgetary allocation (Capital cost) : Rs.11.25 lakh
34.Rain Water Harvesting (RWH)	Budgetary allocation (O & M cost) : Rs.0.9 lakh	Budgetary allocation (O & M cost) : Rs.0.22 lakh
34.Rain Water Harvesting (RWH)	Details of UGT tanks if any : Fire Fighting - 200 CMD	Details of UGT tanks if any : as per Std.
36. Sewage and Waste water	Sewage generation in KLD: 376	Sewage generation in KLD: 335
36. Sewage and Waste water	Capacity of STP (CMD): 390	Capacity of STP (CMD): 350
36. Sewage and Waste water	Budgetary allocation (Capital cost): Rs.125 lakh	Budgetary allocation (Capital cost): Rs.66.80 lakh
36. Sewage and Waste water	Budgetary allocation (O & M cost): Rs.15 Lakh	Budgetary allocation (O & M cost): Rs.0.66 Lakh
37. Solid waste Management	Waste generation in the Pre Construction and Construction phase: Disposal of the construction waste debris: This material shall be used for back filling and leveling of the plot.	This material has been used for back filling and leveling of the plot.
37. Solid waste Management	Waste generation in the operation Phase: Hazardous waste: Negligible	Waste generation in the operation Phase: Hazardous waste: NA
37. Solid waste Management	Waste generation in the operation Phase: STP Sludge (Dry sludge): 56 kg/day	Waste generation in the operation Phase: STP Sludge (Dry sludge): 3.36
37. Solid waste Management	Waste generation in the operation Phase: Others if any: NA	Waste generation in the operation Phase: Others if any: Ewaste : As per Std.
37. Solid waste Management	Mode of Disposal of waste: Hazardous waste: Will be handed over to authorized hazardous waste management	Mode of Disposal of waste: Hazardous waste: NA
37. Solid waste Management	Mode of Disposal of waste: Others if any: NA	Mode of Disposal of waste: Others if any: Ewaste : Will be handed over to authorized dealer
45.Number and list of trees species to be planted in the ground	1. Name of the plant - Manilkara zapota : Common Name : Chiku - 95 no.	1. Name of the plant - Manilkara zapota Common Name : Chiku - 0 no.
45.Number and list of trees species to be planted in the ground	2. Name of the plant - Mangifera indica : Common Name : Mango - 110 no.	2. Name of the plant - Mangifera indica : Common Name : Mango - 120 no.
45.Number and list of trees species to be planted in the ground	3. Name of the plant - Neolamarkia cadamba : Common Name : Kadamb - 45 no.	3. Name of the plant - Neolamarkia cadamba : Common Name : Kadamb - 60 no.
45.Number and list of trees species to be planted in the ground	4. Name of the plant - Milingtonia hortensis Akash : Common Name : Neem - 75 no.	4. Name of the plant - Milingtonia hortensis Akash : Common Name : Neem - 100 no.
45.Number and list of trees species to be planted in the ground	5. Name of the plant - Cassia fistula : Common Name : Amaltas - 105 no.	5. Name of the plant - Cassia fistula : Common Name : Amaltas - 75 no.

45.Number and list of trees species to be planted in the ground	7. Name of the plant - Albizia lebbeck : Common Name : Siris - 75 no.	7. Name of the plant - Albizia lebbeck : Common Name : Siris - 0 no.
45.Number and list of trees species to be planted in the ground	8. Name of the plant - Bauhinia variegate : Common Name : Kachnar - 75 no.	8. Name of the plant - Bauhinia variegate : Common Name : Kachnar - 0 no.
45.Number and list of trees species to be planted in the ground	9. Name of the plant - Kigelia pinnata : Common Name : Sausage Tree - 100 no.	9. Name of the plant - Kigelia pinnata : Common Name : Sausage Tree - 0 no.
45.Number and list of trees species to be planted in the ground	10. Name of the plant - Ficus religiosa : Common Name : Peepal tree - 50 no.	10. Name of the plant - Ficus religiosa : Common Name : Peepal tree - 0 no.
45.Number and list of trees species to be planted in the ground	11. Name of the plant - Prosopis cineraria : Common Name : Shami tree - 60 no.	11. Name of the plant - Prosopis cineraria : Common Name : Shami tree - 60 no.
45.Number and list of trees species to be planted in the ground	12. Name of the plant - Bambusa vulgaris : Common Name : Bamboo - 68 no.	12. Name of the plant - Bambusa vulgaris : Common Name : Bamboo - 80 no.
45.Number and list of trees species to be planted in the ground	-	13. Name of the plant - Syzigium cumini : Common Name : Jambhul - 75 no.
45.Number and list of trees species to be planted in the ground	-	14. Name of the plant - Emblica offcinalis : Common Name : Aawala - 75 no.
45.Number and list of trees species to be planted in the ground	-	15. Name of the plant - Terminalia chebula : Common Name : Harada - 65 no.
45.Number and list of trees species to be planted in the ground	-	16. Name of the plant - Terminalia bellirica : Common Name : Baheda - 58 no.
45.Number and list of trees species to be planted in the ground	-	17. Name of the plant - Annona squamosa : Common Name : Citafal - 78 no.
45.Number and list of trees species to be planted in the ground	-	18. Name of the plant - Limonia acidissima : Common Name : Kawat - 75 no.
Total	933	933
49.Energy saving by non-conventional method:	Auto Timer control for external & Common lighting	Auto Timer control for external
50.Detail calculations & % of saving:	Energy Conservation Measures : Auto Timer control for external & Common lighting : 0.4%	Energy Conservation Measures : Auto Timer control for external : As per calculation
50.Detail calculations & % of saving:	Energy Conservation Measures : Solar powered water heating : 18.1%	Energy Conservation Measures : Solar powered water heating : As per Calculation
50.Detail calculations & % of saving:	Energy Conservation Measures : Solar PV Panels for common area lighting : 10%	Energy Conservation Measures : Solar PV Panels for common area lighting : as per calculation
51.Details of pollution control Systems	Existing pollution control system : Domestic Sewage : STP Capacity 390 CMD	Existing pollution control system : Domestic Sewage : STP Capacity 350 CMD
51.Details of pollution control Systems	Proposed to be installed : Domestic Sewage : Not applicable	Proposed to be installed : Domestic Sewage : STP already installed
51.Details of pollution control Systems	Proposed to be installed : Domestic Solid Waste : Not Applicable	Proposed to be installed : Domestic Solid Waste : OWC already Installed

51.Details of pollution control Systems	Proposed to be installed : DG Set - 4 Nos. x 280 KVA; 1 Nos. x 65 KVA; 1 Nos. x 125 KVA : Not applicable	Proposed to be installed : DG Set - 4 Nos. x 280 KVA; 1 Nos. x 65 KVA; 1 Nos. x 125 KVA : Already installed
52.Environmental Management plan Budgetary Allocation	b) Operation Phase (with Break-up): Storm Water : RWH : Capital cost Rs.45 In Lacs : Operational and Maintenance cost (Rs.9.0 in Lacs/yr)	b) Operation Phase (with Break-up): Storm Water : RWH : Capital cost Rs.11.25 In Lacs : Operational and Maintenance cost (Rs.0.22 in Lacs/yr)
52.Environmental Management plan Budgetary Allocation	b) Operation Phase (with Break-up): Sewage : STP : Capital cost Rs.125 In Lacs : Operational and Maintenance cost (Rs.15 in Lacs/yr)	b) Operation Phase (with Break-up): Sewage : STP : Capital cost Rs.66.80 In Lacs : Operational and Maintenance cost (Rs.0.66 in Lacs/yr)
53. Any Other Information	No Information Available	Construction work has been initiated as per sanctioned received from Town Planning and Valuation Department Branch office Nagpur dated vide letter no. 3583 dated 8/9/10 and 55805.40, m2 BUA (FSI + Non FSI) has been constructed on site
54. Traffic Management	Area per car: 12.5 m2/car	Area per car: 30 m2
54. Traffic Management	Area per car: 12.5 m2/car	Area per car: 30 m2
54. Traffic Management	Width of all Internal roads (m): 6m	Width of all Internal roads (m): 9m, 12m and 15m
54. Traffic Management	Other Relevant Information : NA	Other Relevant Information : Construction work has been initiated as per sanctioned received from Town Planning and Valuation Department Branch office Nagpur dated vide letter no. 3583 dated 8/9/10 and 55805.40, m2 BUA (FSI + Non FSI) has been constructed on site

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 86,900 m2, FSI area of 50,190.466 m2, Non FSI area of 7844.614 m2 and total BUA 58,035.080 m2.

The building configuration of the proposal is as below:

1 Semi Detached Bungalow (A Type) 1-36 & 38-91 G + 1 Height 7.5

2 Detached Bungalow (A Type) G + 1 Height 7.5

3 Residential (B Type) G + 1 Height 7.5

4 Building No 1 2BHK (C Type) S + 7 Height 23.95

5 Building No 1 2 BHK (D Type) S + 7 Height 23.95

6 Building No 2 2 BHK (C Type) S + 7 Height 23.95

7 Building no 3 2 BHK (D Type) S + 7 Height 23.95

8 Building no 4 1 BHK (E Type) S + 7 Height 23.95

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: 52939.985 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. The project cost is Rs. 98 Cr. PP stated that cost of part completed project is Rs.90 Cr, however, PP has not submitted completion certificate from Planning Authority. PP to submit the same then only exemption of Rs, 90 Cr will be given for CER. 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 informed that he has entered into agreement with nearby farmers accepting excess treated water from PP for agricultural purpose. PP to submit copy of agreement and undertake to meet the standards of treated water with prevailing norms of Environment (P) Rules, 1986 pertaining to discharge of treated water on land / nalla.

3. PP to submit colour image copy of land use / land cover map.

4. PP to submit analysis report of existing STP.

5. PP to submit debris management plan.

6. PP to submit revised EMP incorporating cost of laying sewer line and storm water drain up to final disposal point.

7. PP to submit co-ordinated master layout superimposing all environmental parameters.

8. PP to submit details of UGT.

9. PP to obtain and submit following NOC's: (a) CFO NOC, (b) Water supply with quantity, (c) Drainage NOC. (d) solid waste (e) Garden NOC.(f) Tree cutting NOC.

10. PP to submit survival report of existing trees. PP to submit plantation 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.

102 SEAC-3 meeting day 01

SEAC Meeting number: 102 **Meeting Date** January 22, 2020

Subject: Environment Clearance for "Dynamic Imperia " Residential & Commercial at Survey No. 4/2/1,4/2/2,4/2/4 Pisoli, Pune by Vedant Dynamic Associates

Is a Violation Case: No

1.Name of Project	"Dynamic Imperia " Residential & Commercial at Survey No. 4/2/1,4/2/2,4/2/4 Pisoli, Pune by Vedant Dynamic Associates . Applied for amendment in Environment Clearance granted from Pune Metropolitan Regional Development Authority having EC file no. TPS -1816/CR-443/16-DP Directors / UD-13/4/2017 dated 6.12.2017
2.Type of institution	Private
3.Name of Project Proponent	M/s. Vedant Dynamic Associates through Mr. Rajiv Sonkar
4.Name of Consultant	M/s. ULTRA TECH NABET/EIA/1720/RA0094
5.Type of project	Residential & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes – Amendment We have received 1st EC vide file no. TPS -1816/CR-443/16-DP Directors / UD-13/4/2017 dated 6 Dec. 2017 from PMRDA
8.Location of the project	Survey No. 4/2/1,4/2/2,4/2/4 Pisoli, Pune
9.Taluka	Haveli
10.Village	Pisoli,
Correspondence Name:	Mr. Rajiv Sonkar
Room Number:	-
Floor:	3rd Floor
Building Name:	Arcadian building
Road/Street Name:	Between 5th & 6th lane, North main road
Locality:	Koregaon Park
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	To be applied on 12/8/2019
	IOD/IOA/Concession/Plan Approval Number: To be applied on 12/08/2019
	Approved Built-up Area: 38790.92
13.Note on the initiated work (If applicable)	We have started construction as per EC received, partly completed and constructed area is 3659.75 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	17,700 m2
16.Deductions	6639.43 m2
17.Net Plot area	11,060.57 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 24,886.80 m2
	b) Non FSI area (sq. m.): 13,904.12 m2
	c) Total BUA area (sq. m.): 38790.92
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 24,886.80 m2
	Approved Non FSI area (sq. m.): 13,904.12 m2
	Date of Approval: 12-08-2019
19.Total ground coverage (m2)	3548.21 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	32.00%
21.Estimated cost of the project	900000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	LG+UG+Stilt+12 FL.	41.70
2	B	LG+UG+Stilt+12 FL.	41.70
3	C	LG+G+ 2 FL.	12.35
4	D	GR.P+ 4 FL.	16.20
5	Amenity (for E Bldg.)School	STILT+G+ 4 FL.	21.60
6	F	GR+1FL	6.55

23.Number of tenants and shops	Residential- 298 Nos. Commercial complex- 99 Nos.
24.Number of expected residents / users	Residential Population - 1490 Nos. ; Commercial Population - Comm. – 720 nos. , School -975 Nos. Total - 3185 Nos.
25.Tenant density per hectare	298 tenant/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)	12m & 24m
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 is 9m
29.Existing structure (s) if any	Yes – Amendment We have received EC vide file no. TPS -1816/CR-443/16-DP Directors / UD-13/4/2017 dated 6 Dec. 2017 from PMRDA
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	169
	Recycled water - Flushing (CMD):	108
	Recycled water - Gardening (CMD):	7
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	285
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	850
	Excess treated water	145
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	169
	Recycled water - Flushing (CMD):	108
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	277
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	850
	Excess treated water	152
Details of Swimming pool (If any)	1. Main Pool –12m x 6m x 1.2m Depth Water requirement – 86,400Liters Balancing Tank Volume – 5,000 Liters Total water Requirement in KL: –91.4 cum/day Details of Plant & Machinery used for treatment of Swimming pool water: High Rate Sand Filter recirculation Filtration system consist of FRP Filter,Pump, Pool Basin Equipment, Recirculating PVC Plumbing, Cleaning Kit. Details of quality to be achieved for swimming pool water and parameters to be monitored: Chlorine Dosing Systems, Cleaning Kit, Test Kit. pH – 7.5 -8.5; Chlorine – 0.5-0.2 ppm, Total alkalinity – 50-500 ppm, Budgetary allocation (Capital cost): 13.0 lakhs (O&M cost):0.9 lakhs/yr.	

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 – 32.00 m. to 37.00 m. BGL. (34.50 M. Average) Rainy Season – 12.80 m. to 22.00 BGL. (17.40 M. Average) Winter Season – 22.40 m. to 29.50 m. BGL. (25.95 M. Average)
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	8 Nos.
	Size of recharge pits :	a) RWH Pit - 6 no. of Size: 2.0m. X 2.0 m. X 1.5 m. with 6 mm to 60 m of bore b) RWH Pit - 2 nos. of Size 1.75 m X 1.75 m X 1.75 m Depth 6 mm with 6 mm to 60 m of bore
	Budgetary allocation (Capital cost) :	10.40 Lakhs
	Budgetary allocation (O & M cost) :	0.50 lakhs per year
	Details of UGT tanks if any :	Domestic : 307 cum/day Flushing : 108 cum/day Fire : 250 cum/day
35.Storm water drainage	**Natural water drainage pattern:**	As per storm water layout
	Quantity of storm water:	736.32 m3 / hr
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	260
	STP technology:	MBBR (Anoxic Aerobic Process)
	Capacity of STP (CMD):	2 Nos. Total capacity - 285 KLD. 240 KLD x 1 No & 45 KLD x 1 No
	Location & area of the STP:	Above ground (open to sky). Area for 240 KLD – 116.82 m2 , Area for 45 KLD – 25.30 m2 Total Area - 142.12 m2
	Budgetary allocation (Capital cost):	100.00 Lakhs
	Budgetary allocation (O & M cost):	13.25 Lakhs per annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	8500m3 for backfilling and levelling (7000 +1500)
	Disposal of the construction waste debris:	Topsoil to be preserved & remaining will be used for back filling
Waste generation in the operation Phase:	**Dry waste:**	552 kg per day
	Wet waste:	617 kg per day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	57 kg per day
	Others if any:	E waste - 7.00 kg/day

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to PMC
	Wet waste:	Will be treated in OWC
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	E-waste - Handover to authorized dealer
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	20 m2
	Area for machinery:	64 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25.50 Lakhs
	O & M cost:	5.77 lakhs per annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1561.48 m2
	No of trees to be cut :	0
	Number of trees to be planted :	Proposed trees – 155 nos., Planted trees (Amenity) - 34 Nos. , Planted Existing Trees - 30 Nos. Existing trees -186 Nos. out of Retained trees -5 Nos. , Transplanted - 181 Nos.
	List of proposed native trees :	Listed below
	Timeline for completion of plantation :	Partly completed

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Michelia Champaka	Chafa	12	Good for ornamental purpose
2	Cassia Fistula	Bahawa	11	Have medical properties & larval host for butterflies
3	Anthocephallus cadamba	Kadamb	11	Good for roadside plantation and provide shade
4	Saraca indica	Sita ashok	11	Spreading, evergreen tree suitable for all types of gardens
5	Bauhinia racemosa	Apta	11	Drought resistant, good air purifier & have medicinal properties
6	Lagerstromia flosreginea	Tamhan	11	Good as a avenue tree, good for group planting around water gardens & ponds
7	Lagerstromia flosreginea	Tamhan	11	Good as a avenue tree, good for group planting around water gardens & ponds
8	Khaya grandis	Mohagani	11	Good for ornamental purpose
9	Khaya grandis	Mohagani	11	Good for ornamental purpose
10	Acrus sapota	Chickoo	11	Fruit bearing tree
11	Psidiumguajava	Guava	11	Fruit bearing tree
12	Annona squammosa	Sitaphal	11	Fruit bearing tree
13	Albizialebbeck	Shirish	11	Good for roadside plantation & provide shade
14	Magniferaindica	Mango	11	Fruit bearing tree
15	Total Proposed Nos.	-	155 Nos.	-
16	Planted Trees (on Ground)Amenity Plot	-	-	-
17	Micheliachampaka	Chafa	17	Good for ornamental purpose
18	Anthocephalluscadamba	Kadamb	17	Good for roadside plantation and provide shade
19	Total	-	34 Nos.	-
20	List of Planted Existing trees	-	-	-
21	Swieteniamahagoni	Indian mahogony	17	-
22	Anthocephalluscadamba	Kadamb	13	-
23	Total	-	30 Nos.	-

24	List of Trees To be Retained	-	-	-
25	Azadirachtaindica	Kadu limb	3	-
26	Ficusbengalensis	Wad	2	-
27	Total	-	5 Nos.	-
28	List to be transplanted	-	-	-
29	Azadirachtaindica	Kadu limb	27	-
30	Eucalyptus	Nilgiri	21	-
31	Gliricidiasepium	Giripushpa	3	-
32	Punicagranatum	Dalimb	1	-
33	Swieteniamahagani	Indian mahogany	2	-
34	Silver oak	Silver oak	1	-
35	Moringaoleifera	Shevga	4	-
36	Leucaenaleucocephala	Saubabul	121	-
37	Vachellianilotica	Kateri babul	5	-
38	Ficusbengalensis	Wad	2	-
39	Ziziphusmauritiana	Bor	2	-
40	Total	-	181 Nos.	-
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	Thevetianerifolia	0.90m	-
2	Stachytarpheta	0.45 m	-
3	Plumbagozeylanica	0.45m	-
4	Acoruscalamus	0.30m	-
5	Korphad	0.30m	-
6	Silver oak	0.30m	-
7	Ocimum sanctum	0.30m	-
8	Nerium oleander	0.75m	-
9	Hibiscus	0.60 m	-

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 x 1 No
	During Operation phase (Connected load):	1845 KW
	During Operation phase (Demand load):	998 KW
	Transformer:	2 Nos. x 630 kVA
	DG set as Power back-up during operation phase:	1 x 140 kVA ; 1 x 45 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

- Auto Timer Control for external & common lightning
- Use of CFL / LED lamps in all public / common areas
- Solar Powered water heating
- Electronic V3F drives for elevators
- Solar PV Panel power for common area lightning

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels	25650 kWh/annum (0.71%)
2	Timer Logic Controller	24892 kWh/annum (0.69%)
3	Electronic V3F drive for Lifts	19060 kWh/annum (0.53%)
4	Solar Water Heater	311112 kWh/annum (8.65%)
5	Total	380714 KWH / Annum (10.59 %)

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	70.44 Lakhs
	O & M cost:	3.6 Lakhs 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	Air & Noise	Water For Dust Suppression	0.9

2	Air & Noise	Air & Noise monitoring	0.5
3	Water	Tanker water for construction & worker	1.12
4	Water	Water monitoring	0.03
5	Land	Labour toilets 10 Nos. Cleaning 10,000 Rs./month	1.00
6	Biological	Gardening & Excavation	0.95
7	Socio-economic	Disinfection at site, Safety, First Aid, Health Hygiene Facilities,Health Check Up,, Creches for children& Personal Protective Equipment	5.7
8	Total	-	10.2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP Cost	2 No. of STP 240 X1 (A to F Buildings) 45 X1 (for school)	100.00	13.25
2	Rain Water Harvesting	8 nos. of recharge pits	10.40	0.50
3	Environmental Monitoring	-	-	0.60
4	Gardening	Plantation of native trees	12.00	3.55
5	Solid waste	2 Nos. of OWC	25.50	5.77
6	Energy	Energy saving measures	70.44	3.6
7	Swimming pool	1 No.	13.00	0.9
8	Storm water & drainage line	Drainage line	18.51	3.60
9	Total	-	249.85	31.77

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:	2 Nos.
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	Total Cover Parking – 7633.20 m2 Open parking – 1264.40 m2 Total = 8897.60 m2 For School : Total Cover Parking – 177.00 m2 Open parking – 588.60 m2 Total = 765.6 m2
	Area per car:	30
	Area per car:	30
	Number of 2-Wheelers as approved by competent authority:	813 nos
	Number of 4-Wheelers as approved by competent authority:	186 nos.
	Public Transport:	Nearest bus stop - Pisoli Gaon Bus Stop
	Width of all Internal roads (m):	12 m , 15 m & 24 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	8a (B2)
	Court cases pending if any	Not applicable
	Other Relevant Informations	We have received 1st EC vide file no. TPS -1816/CR-443/16-DP Directors / UD-13/4/2017 dated 6 Dec. 2017 from PMRDA Now we are applying for Amendment due to change in FSI & NON FSI Area as per DCR Rule
	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 amendment in previous EC for total plot area of 17,700 m2, FSI area of 24,886.80 m2, Non FSI area of 13,904.12 m2 and total BUA of 38,790.92 m2.

PP has received 1st EC vide file no. TPS -1816/CR-443/16-DP Directors / UD-13/4/2017 dated 6th Dec. 2017 from PMRDA.

The building configuration of the proposal is as below:

1	A	LG+UG+Stilt+12 FL.	Height 41.70
2	B	LG+UG+Stilt+12 FL.	Height 41.70
3	C	LG+G+ 2 FL.	Height 12.35
4	D	GR.P+ 4 FL.	Height 16.20
5	Amenity (for E Bldg.)School	STILT+G+ 4 FL.	Height 6.55
6	F	GR+1FL	Height 21.6

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. In CER PP has proposed erection of 160 street lights. PP has also added the cost of 1006 trees in this. PP to bifurcate the activities and submit budgets for individual activities. PP to submit revised CER.

2. PP to obtain fire NOC for A wing (9th to 12th floor) and D wing (12th floor).

*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

102 SEAC-3 meeting day 01

SEAC Meeting number: 102 **Meeting Date** January 22, 2020

Subject: Environment Clearance for Proposed Housing Scheme for MHADA (Phase I + Phase II) at S.No. 126 +127/1, Tathawade, Taluka - Mulshi, District- Pune.

Is a Violation Case: No

1.Name of Project	Proposed Housing Scheme for MHADA (Phase I + Phase II)
2.Type of institution	Government
3.Name of Project Proponent	Pune Housing and Area Development Board, Pune. (A Unit of MHADA)
4.Name of Consultant	Fine Envirotech Engineers
5.Type of project	Housing Project -MHADA
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in Environmental Clearance.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Environmental Clearance received vide no. SEAC 2013/C.R.467/TC3, Dated:1/12/2015 from Government of Maharashtra.
8.Location of the project	S.No. 126 +127/1, Tathawade, Taluka - Mulshi, District- Pune
9.Taluka	Mulshi
10.Village	Tathawade
Correspondence Name:	Pune Housing and Area Development Board, Pune. (A Unit of MHADA)
Room Number:	01
Floor:	3rd Floor
Building Name:	Grihanirman Bhavan
Road/Street Name:	Alankar Talkies Road
Locality:	MHADA Building, Agarkar Nagar
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri- Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD approval received from Building Permission Department PCMC, Pimpri, Pune, dated:20/04/2019. Sanctioned No. B.P/ENV/Tathawade/ 03/ 2019.
	IOD/IOA/Concession/Plan Approval Number: Sanctioned No. B.P/ENV/Tathawade/ 03/ 2019, Dated:20/04/2019
	Approved Built-up Area: 141237.58
13.Note on the initiated work (If applicable)	No work is initiated.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	56,509.16 sq.mt.
16.Deductions	16,053.79 sq.mt.
17.Net Plot area	40,455.37 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 141,237.58 sq.mt. (Phase I - 51,593.04 sq.mt. + Phase II - 89,644.54 sq.mt.)
	b) Non FSI area (sq. m.): 1,30,227.20 sq.mt. (Phase I - 44,375.90 sq.mt. + Phase II - 85,851.30 sq.mt.)
	c) Total BUA area (sq. m.): 271464.78
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 141,237.58 sq.mt.
	Approved Non FSI area (sq. m.): 1,30,227.20 sq.mt.
	Date of Approval: 20-04-2019
19.Total ground coverage (m2)	10,922.29 sq.mt. (Phase I - 3,579.48 sq.mt. + Phase II - 7,342.81 sq.mt.)
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	27.00 %
21.Estimated cost of the project	6250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Phase - I	.....	.....
2	Residential Buildings (MIG) - 04 Nos (Building C1, Building C2, Building C3, Building C4)	2 Basement + Stilt Parking + 22 Floors	66.88 m
3	PHASE - II	.....	.....
4	Residential Buildings (MIG) - 02 Nos. (Building A1 , Building A2)	Building A1-2 Basement + Stilt Parking + 22 Floors., Building A2-2 Basement + Stilt Parking + 21 Floors.	Building A1 - 68.50 m., Building A2 - 65.55 m
5	Residential Buildings (HIG) - 01 No. (Building B1)	2 Basement + Stilt Parking + 22 Floors.	68.50 m

23.Number of tenants and shops	Total Residential Tenements - 1,262 nos. (Phase I - 680 nos + Phase II - 582 nos) Commercial :Shops - 45 nos. and Offices -13 nos.
24.Number of expected residents / users	Total Residents - 6,310 nos. (Phase I - 3,400 nos. + Phase II - 2,910 nos.) and Commercial users - 7,050 nos.
25.Tenant density per hectare	250 per hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	60.00 m wide road main road and 18.00 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m turning radius for easy access of fire tender movement from all around building excluding the width for the plantation.
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**	PCMC/ Recycled water
	Fresh water (CMD):	709 kld (Phase I - 306 kld + Phase II - 403 kld)
	Recycled water - Flushing (CMD):	460 kld (Phase I - 153 kld + Phase II - 307 kld)
	Recycled water - Gardening (CMD):	27 kld
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1,196 kld
	Fire fighting - Underground water tank(CMD):	800 kld
	Fire fighting - Overhead water tank(CMD):	200 kld
	Excess treated water	355 kld
Wet season:	**Source of water**	PCMC/ Recycled water
	Fresh water (CMD):	709 kld (Phase I - 306 kld + Phase II - 403 kld)
	Recycled water - Flushing (CMD):	460 kld (Phase I - 153 kld + Phase II - 307 kld)
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1,169 kld
	Fire fighting - Underground water tank(CMD):	800 kld
	Fire fighting - Overhead water tank(CMD):	200 kld
	Excess treated water	382 kld
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon 26m and post Monsoon 4m below Ground level.
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	10 nos.
	Size of recharge pits :	2m X 2m X 2m Depth
	Budgetary allocation (Capital cost) :	Rs. 10 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 2.5 Lakhs / year
	Details of UGT tanks if any :	Domestic water tank - 622.35 cum. Flushing water tank - 311.17 cum. Fire water tank - 800 cum.
35.Storm water drainage	**Natural water drainage pattern:**	Open storm water drain with gratings are proposed
	Quantity of storm water:	0.75 m3/sec
	Size of SWD:	450/600/800/900 mm wide
Sewage and Waste water	**Sewage generation in KLD:**	936 kld (Phase I - 367 kld + Phase II - 569 kld)
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of capacity 700 kld and 1 STP of capacity 270 kld
	Location & area of the STP:	Area for STP of capacity 700 kld - 450 sq.mt., Location – On Ground and Area for STP of capacity 270 kld - 112 sq.mt., Location – On Ground
	Budgetary allocation (Capital cost):	Rs. 150 Lakhs
	Budgetary allocation (O & M cost):	Rs. 40 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated materials quantity - 88,117.00 cum
	Disposal of the construction waste debris:	Excavated material of quantity 22,350.00 cum shall be partly reused for backfilling and leveling on site and remaining excavated material 65,767.00 cum shall be disposed by authorized contractor
Waste generation in the operation Phase:	**Dry waste:**	2,496 kg/day (Phase I - 680 kg/day + Phase II - 1,816 kg/day)
	Wet waste:	2,588 kg/day (Phase I - 1,020 kg/day + Phase II -1,402 kg/day + Gardening waste -166 kg/day)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	73 kg.
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handed over to authorized agency/recycler.
	Wet waste:	Wet waste will be process in Organic Waste Converter and compost will be used as manure for gardening.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	100 sq.mt.
	Area for machinery:	30 sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 50 Lakhs
	O & M cost:	Rs. 15 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	4,495.04 sq.mt
	No of trees to be cut :	NA
	Number of trees to be planted :	565 nos.
	List of proposed native trees :	Karanj, Shivan, Putranjiva, Neem, Son chafa, Nandruk, Palas, Shirish, Parijatak, Kanchan, Bhava, Savar, Mango, Awala, Guava, Tamarind, Pangara, Kadam, Kunti, Sita Ashoka, Bakul, Arjun, Apta, Ber, Chapa, Nirgudi, Stachytarpheta.
	Timeline for completion of plantation :	2 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Pongamia pinnata	Karanj	15 nos.	Shady tree
2	Gmelina arborea	Shivan	07 nos.	Fast growing tree with beautiful yellow flowers
3	Putranjiva roxburghii	Putranjiva	08 nos.	Medium sized evergreen tree
4	Azardirachta indica	Neem	50 nos.	Semi-evergreen tree with medicinal value
5	Michelia champaca	Son Chafa	16 nos.	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
6	Ficus retusa	Nandruk	08 nos.	Medium sized evergreen tree, Shady tree.
7	Butea monosperma	Palas	06 nos.	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
8	Albizia lebbeck	Shirish	57 nos.	Shady tree, yellowish green fragrant flowers
9	Nyctanthes arbor-tristis	Parijatak	55 nos.	Small deciduous fast growing tree, beautiful flowers.
10	Bauhinea purpurea	Kanchan	30 nos.	Butterfly host plant
11	Cassia fistula	Bhava	58 nos.	Drought tolerant, ornamental and medicinal plant
12	Bombax ceiba	Savar	10 nos.	Large deciduous tree. Flowers attract many birds.
13	Magnifera indica	Mango	10 nos.	Edible fruit , bird attracting species
14	Emblica officinalis	Awala	10 nos.	Medium size tree with green yellow flowers
15	Psidium guayava	Guava	05 nos.	Small tree with white flower and green colored fruit.
16	Tamarindus indica	Tamarind	20 nos.	Medicinal value, Edible fruit
17	Erythina indica	Pangara	12 nos.	Medium sized deciduous tree. Bright scarlet flowers
18	Anthicephallus cadamba	Kadamba	08 nos.	Shady, large tree, ball shaped flowers
19	Murraya paniculata	Kunti	07 nos.	Small tree, Fragrant white flowers, Butterfly host plan

20	Saraca asoka	Sita Ashoka	08 nos.	Shady tree with red yellow flowers. Good for road side plantation
21	Mimusops elengi	Bakul	18 nos.	Shady tree, small white fragrant flowers
22	Termilia cuniata	Arjun	24 nos.	Large trees of the flowering plant
23	Bauhinia racemosa	Apta	45 nos.	Draught resistance and good air purifier
24	Ziziphus mauritiana	Ber	08 nos.	Small tree with fragrant white flowers
25	Plumeria alba	Chapa	09 nos.	Beautiful white flowers, Butterfly host plant
26	Vitex negundo	Nirgudi	16 nos.	Good for Hedge, flowers attract butterflies & moth
27	Stachytarpheta sp.	Stachytarpheta	45 nos.	Ornamental, flowers attract butterflies
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	350 KW
	DG set as Power back-up during construction phase	400 KW
	During Operation phase (Connected load):	16,308.5 KW (Phase I - 4,736 KW + Phase II - 11,572.5 KW)
	During Operation phase (Demand load):	8,817.06 KW (Phase I - 2,126.72 KW + Phase II - 6,690.34 KW)
	Transformer:	19 nos. of 630 KVA
	DG set as Power back-up during operation phase:	5 nos x 320 KVA + 3 nos. of 500 KVA (Phase I- 2 nos x 320 KVA + 1 no. of 500 KVA + Phase II - 3 nos x 320 KVA +2 nos. of 500 KVA)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1) LED Tube Lights for common area lights.
2) PV Solar system for common lights.
3) VVVF Drive for Lift motor.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	Energy saving by using LED light Fixture	36 %
2	Energy saving by using solar system for common areas	1.01 %
3	Energy saving by using VVVF drive for lift	35 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 120 Lakhs
	O & M cost:	Rs. 6 Lakhs / year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air and Noise	Site Barricading and Dust Control Measures	37.20
2	Water	Tanker Water For Construction And Waste Water Management	05.55
3	Solid Waste	Construction Waste Management	03.42
4	Occupation Health and safety	Health Checkup of Workers, Disinfection at Site, First Aid Facility, Personal Protective Equipment	05.50
5	Environmental Monitoring	Air, Noise, Water, Biological	07.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP of capacity 700 kld and 1 STP of capacity 270 kld based on MBBR technology	150.0	40.00
2	Rainwater Harvesting System	10 nos. of Recharge Pits	10.00	02.50
3	Solid Waste Management	OWC, Manpower and colored dustbins	50.00	15.00
4	Green Belt Development	Landscaping and tree plantation	30.00	05.00
5	Energy Saving Measures	Use of LED Tube Lights PV Solar system for common area lights and VVVF Drive for Lift motor	120.0	06.00

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	3 nos.
Parking details:	**Number and area of basement:**	No. of Basements - 2 nos., Area of Basements - 50,353.86 sq.mt
	Number and area of podia:	NA
	Total Parking area:	72,201.80 sq.mt. (Basement - 50,353.86 sq.mt. + Stilt - 21,847.94 sq.mt.)
	Area per car:	33.60 sq.mt.
	Area per car:	33.60 sq.mt.
	Number of 2-Wheelers as approved by competent authority:	Scooters - 5,200 nos. (Phase I+ Phase II) and Cycles - 3,416 nos. (Phase I + Phase II)
	Number of 4-Wheelers as approved by competent authority:	1,542 nos. (Phase I- 374 nos.+ Phase II - 1,168 sq.mt.)
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(b) B1
	Court cases pending if any	NA

	Other Relevant Informations	We are applying for grant of Terms of Reference (ToR) for the Environmental clearance for Proposed Housing Scheme for MHADA (Phase I + Phase II) at S. No. 126 +127/1, Tathawade, Taluka - Mulshi, District- Pune. Environmental Clearance received vide no. SEAC-2013/C.R.467/TC3, Dated:1/12/2015 from Government of Maharashtra. The proposed project will be developed in 2 Phases i.e Phase I and Phase II.
	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 amendment in EC for total plot area of 56,509.16 m2, FSI area of 1,41,237.58 m2, Non FSI area of 1,30,227.20 m2 and total BUA of 2,71,464.78 m2.

Previous Environmental Clearance was received vide no. SEAC 2013/C.R.467/TC3, Dated:1/12/2015.

The building configuration of the proposal is as below:

1 Phase - I

Residential Buildings (MIG) – 04 Nos (Building C1, Building C2, Building C3, Building C4) Basement + Stilt Parking + 22 Floors Height 66.88 m

2 PHASE - II

Residential Buildings (MIG) – 02 Nos. (Building A1, Building A2) Building A1-2 Basement + Stilt Parking + 22 Floors., Height A1- 68.50 m

Building A2- 2 Basement + Stilt Parking + 21 Floors. Height A2- 65.55 m

Residential Buildings (HIG) – 01 No. (Building B1) 2 Basement + Stilt Parking + 22 Floors. Height 68.50 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(b)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, disaster management committee during construction phase and distance of emergency services from the project site.

3. PP to obtain drainage NOC.

*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: 102 **Meeting Date** January 22, 2020

Subject: Environment Clearance for Rejuvenation Project for Indrayani River

Is a Violation Case: No

1.Name of Project	Rejuvenation Project for Indrayani River
2.Type of institution	Government
3.Name of Project Proponent	Pimpri Chinchwad Municipal Corporation
4.Name of Consultant	Green Circle, Inc.
5.Type of project	River Rejuvenation Project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Pimpri Chinchwad
9.Taluka	Pimpri Chinchwad
10.Village	Pimpri Chinchwad
Correspondence Name:	Mr. Makarand Dnyanoba Nikam
Room Number:	NA
Floor:	NA
Building Name:	PCMC Building
Road/Street Name:	NA
Locality:	Pimpri
City:	Pimpri
11.Whether in Corporation / Municipal / other area	Municipal
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 00
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.)	471.47 ha
16.Deductions	00
17.Net Plot area	471.47 ha
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 00
	b) Non FSI area (sq. m.): 00
	c) Total BUA area (sq. m.): 00
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: 28-03-2019
19.Total ground coverage (m2)	4384671
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	4384671
21.Estimated cost of the project	13850000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	THERE WILL BE NO TENANTS
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6 m
29.Existing structure (s) if any	There are no existing structures
30.Details of the demolition with disposal (If applicable)	There will be no demolition

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):	66
	Recycled water - Flushing (CMD):	00
	Recycled water - Gardening (CMD):	370
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	436
	Fire fighting - Underground water tank(CMD):	00
	Fire fighting - Overhead water tank(CMD):	00
	Excess treated water	00

Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	66
	Recycled water - Flushing (CMD):	00
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	66
	Fire fighting - Underground water tank(CMD):	00
	Fire fighting - Overhead water tank(CMD):	00
	Excess treated water	370
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:**	1 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	THERE ARE NO UGT TANKS

35.Storm water drainage	**Natural water drainage pattern:**	CATCHMENT AREA- 985 SQ.MT
	Quantity of storm water:	NA
	Size of SWD:	NA

Sewage and Waste water	**Sewage generation in KLD:**	52.8 FROM THE PROPOSED PROJECT
	STP technology:	SBR
	Capacity of STP (CMD):	EXISTING-1 NOS. - 21 MLD CAPACITY ; PROPOSED- 2 NOS. - 1 NO. - 4 MLD & 1 NO.- 20 MLD
	Location & area of the STP:	VARIOUS PLACES IN CITY
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	102 kg/day
	Disposal of the construction waste debris:	PCMC Authorized Vendor
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	WILL BE SENT TO WASTE DISPOSAL FACILITY OF PCMC AFTER SEGREGATION IF GENERATED
	Wet waste:	WILL BE SENT TO WASTE DISPOSAL FACILITY OF PCMC AFTER SEGREGATION IF GENERATED
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

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 :**	NA
	No of trees to be cut :	NA
	Number of trees to be planted :	NA
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygium caryophyllatum	JAMUN	-	BEAUTIFICATION AND EDIBL
2	Samanea saman	SIRIS	-	BEAUTIFICATION
3	Mangifera Indica	MANGO	-	EDIBLE
4	Azadirachta Indica	NEEM	-	BEAUTIFICATION AND MEDICINE
5	Pongamia pinnata	KARANJ	-	BEAUTIFICATION AND MEDICINE
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Bougainvillea Purple	-	-
2	Bougainvillea Pink Barbara Karst	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	0.18 MVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	1.8
	During Operation phase (Demand load):	NA
	Transformer:	NA
	DG set as Power back-up during operation phase:	NA
	Fuel used:	NA
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

LED LIGHTS WILL BE USED FOR STREET LAMPS

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED LAMPS	NA

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:**	NA
	O & M cost:	NA

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	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	DETAILS OF EMP WILL BE PROVIDED IN EIA REPORT.
	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 Rejuvenation Project for Indrayani River comprising area of 471.47 ha.

PP was issued Terms of Reference in 94th 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(b)B1.

DECISION OF SEAC

During discussion following points emerged:

1. The Committee noted that PP has included project activities in CER. PP to undertake activities other than those included in the proposal but useful for public. 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. All the major recreation spots proposed along the river including ghats etc. be indicated on one plan and the roads heading to these spots shall be clearly indicated.

3. Present width of all approach roads shall be mentioned and the proposed width as per DP be indicated along side.

4. Traffic volume on the approach road at present and the projected volume after 5, 10 and 15 years shall be calculated and tabulated. Assumptions made for projections shall be clearly mentioned.

5. Pedestrian volume and foot falls on the ghats and recreation spots shall also be indicated approach-wise and facilities provided for safe and convenient movement to be listed and submitted. A single plan showing all the spots and ghats shall be submitted.

6. PP has stated that detailed plan in respect of tree plantation is yet to be prepared. PP to obtain prior permission of tree authority before cutting any tree.

7. PP to submit indemnity bond indemnifying Environment Department, GoM from any legal consequences.

8. PP to provide details of removal of water hyacinth and prevention plan for repeated growth.

9. PP to provide details of wastewater in different sections separately wherein only domestic sewage and where industrial waste is contaminating. PP to submit design details for proposed STPs, ETPs and revamping of existing treatment plan.

10. PP to provide analysis reports of sediments and silt in various sections of river.

11. PP to provide length wise data on current dissolve oxygen (DO) levels, BOD and TSS of river water.

12. PP to provide details of aquatic life in river.

13. PP to provide details of flood modelling in 2D/3D. PP to provide details of management plan for reducing flood risk.

14. PP to provide details of activities along the river which are planned including existing / proposed ghats and environment mitigation plan.

15. PP to submit permissions for changing flow path modifications.

16. PP to submit details of integrated solid waste management plan for catchment area including primary segregation, collection and disposal etc.

17. PP to submit details of screens or any proposed insitu treatment on drains discharging to river.

18. PP to submit geohydrology report and water balance through modelling for interaction of surface and ground water.

19. PP to submit details of IEC and public awareness and methods for avoiding the river pollution due to interaction of public. PP to incorporate the details in EMP.

20. PP to prepare a detailed project specific, site specific, executable and auditable EMP.

21. PP to submit undertaking regarding compliance of and meeting with all the prevailing environmental norms / parameters in force.

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

*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.

102 SEAC-3 meeting day 01

SEAC Meeting number: 102 **Meeting Date** January 22, 2020

Subject: Environment Clearance for Proposed residential Building "Ekta California" development at S. No. 9/1(P), Undri, Pune.

Is a Violation Case: Yes

1.Name of Project	Ekta California
2.Type of institution	Private
3.Name of Project Proponent	Ekta Housing Private Limited
4.Name of Consultant	K Srinivasan
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	No
8.Location of the project	S. No. 9/1(P), Undri
9.Taluka	Pune
10.Village	--
Correspondence Name:	Ashok Mohanani
Room Number:	Office No. 401,
Floor:	4th Floor,
Building Name:	Hallmark Business Plaza,
Road/Street Name:	Off. W.E. Highway,
Locality:	Kalanagar, Bandra -East
City:	Mumbai- 400051
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate
	IOD/IOA/Concession/Plan Approval Number: Commencement Certificate: CC/3774/16, Dated-31/03/2017
	Approved Built-up Area: 46569.21
13.Note on the initiated work (If applicable)	Construction work initiated and total constructed area: 44841.72 Sq. Mt.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Commencement Certificate: CC/3774/16, Dated-31/03/2017
15.Total Plot Area (sq. m.)	26000.00 Sq. Mt.
16.Deductions	3253.10 Sq. Mt. (Land under 60 Meter wide DP road: 1713.10 Sq. Mt. + Land under 24 Meter wide DP road: 144.00 Sq. Mt. + Area Under reservation MH-26: 998.00 Sq. Mt. & PC-31: 398 Sq. Mt.)
17.Net Plot area	22746.90 Sq. Mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 24940.54
	b) Non FSI area (sq. m.): 21628.67
	c) Total BUA area (sq. m.): 46569.21
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 24940.54
	Approved Non FSI area (sq. m.): 21628.67
	Date of Approval: 31-03-2017
19.Total ground coverage (m2)	7635.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	33.56 %
21.Estimated cost of the project	1374000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	Stilt on ground floor + stilt podium + 12 upper Floors + 24 Flats	36.00
2	Building B	Stilt on ground floor + stilt podium + 12 upper Floors + 24 Flats	36.00
3	Building C	Stilt on ground floor + stilt podium + 12 upper Floors + 24 Flats	36.00
4	Building D	Stilt on ground floor + 12 Floors + 24 Flats	36.00
5	Building E	Stilt on ground floor + 12 Floors + 24 Flats	36.00
6	Building F	Stilt on ground floor + 12 Floors + 70 Flats	39.20

23.Number of tenants and shops	Residential 190 Flats
24.Number of expected residents / users	1105 Nos.
25.Tenant density per hectare	83.50
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Proposed 60 Meter wide road and 24 Meter 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 Meters
29.Existing structure (s) if any	Existing 5 Buildings (A to E)
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**	Pune Municipal Corporation + treated sewage from STP
	Fresh water (CMD):	100.00
	Recycled water - Flushing (CMD):	50.00
	Recycled water - Gardening (CMD):	25.00
	Swimming pool make up (Cum):	5.00
	Total Water Requirement (CMD) :	180.00
	Fire fighting - Underground water tank(CMD):	200.00 (A to E building as per CFO) and 50.00 (F building as per CFO)
	Fire fighting - Overhead water tank(CMD):	20.00 (for each building)
	Excess treated water	33.00 (Treated water also used in Car washing (4.00) and STP backwash (10.00)
Wet season:	**Source of water**	Pune Municipal Corporation + treated sewage from STP + RWH
	Fresh water (CMD):	100.00
	Recycled water - Flushing (CMD):	50.00
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	5.00
	Total Water Requirement (CMD) :	155.00
	Fire fighting - Underground water tank(CMD):	200.00 (A to E building as per CFO) and 50.00 (F building as per CFO)
	Fire fighting - Overhead water tank(CMD):	20.00 (for each building)
	Excess treated water	58.00 (Treated water also used in Car washing (4.00) and STP backwash (10.00)
Details of Swimming pool (If any)	Swimming pool area: 425 Sq. Mt.	

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:**	3- 4 Meters
	Size and no of RWH tank(s) and Quantity:	1 RWH Tank of 130 KLD
	Location of the RWH tank(s):	On Ground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	21.00 Lacs
	Budgetary allocation (O & M cost) :	0.84 Lacs/year
	Details of UGT tanks if any :	Domestic UG tank: 150 KLD Flushing UG tank: 75 KLD Fire Tank: 200 KLD
35.Storm water drainage	**Natural water drainage pattern:**	The storm drainage above ground will essentially cater for the seasonal rains. The major part of discharge will be from the roof. Rain water outlets will be provided at the edges from where it will be carried down by UPVC agriculture pipes to discharge water into storm water entrance chambers below ground. Run- off from the ground and terrace will be finally discharged into rain water harvesting tank below ground. The overflow from rain water harvesting tank will be discharged into storm water c
	Quantity of storm water:	3.60 M3/ Min
	Size of SWD:	750 mmØ pipe
Sewage and Waste water	**Sewage generation in KLD:**	135 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	212 KLD STP
	Location & area of the STP:	On ground and area 118.50 Sq. Mtrs.
	Budgetary allocation (Capital cost):	45.00 Lacs
	Budgetary allocation (O & M cost):	3.00 Lacs/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated soil will be used in land leveling purpose & construction debris will be handed over to authorized agency.
	Disposal of the construction waste debris:	Construction debris will be handed over to Authorized agency.
Waste generation in the operation Phase:	**Dry waste:**	306.60 Kg/day
	Wet waste:	204.40 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	3.20 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized agency.
	Wet waste:	Composting through OWC & used at site/as manure.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure within the premises for plants. Excess shall be sold /handover to outside parties or gardens.
	Others if any:	NA
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	30 Sq. Mt. including machinery
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	4.00 Lacs
	O & M cost:	0.40 Lacs/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	Green area on Ground: 2274.70 Sq. Mt. and Green area on podium: 1240.00 Sq. Mt.
	No of trees to be cut :	NA
	Number of trees to be planted :	Required: 223 Nos. and Proposed on site: 320 Nos.
	List of proposed native trees :	As mentioned below.
	Timeline for completion of plantation :	Trees already planted on site

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	Mimusops elengi	Bakul	75	Butterfly host plant having high Air Pollution Index Tolerance (APIT) tree, small white fragrant flowers.
2	Couroupita guianensis	cannonball	75	medicinal uses for the plant.
3	Swietenia mahagoni	Cuban mahogany	75	There has been some research into the acaricidal effects of its leaves and bark for control of the honey bee pest.
4	Elaeocarpus sphaericus	Rudraki	50	Fruits have properties such as sedative, hypnotic, tranquillizing, anti-convulsive, anti-epileptic and anti-hypertensive properties, used in the treatment of epilepsy and heart problems.
5	Alstonia scholaris	blackboard tree	25	It has proved a valuable remedy in chronic diarrhoea and the advanced stages of dysentery.
6	Purple bauhinia	Purple Orchid Tree	20	evergreen small tree or shrub up to 4 - 10 m tall and 2 m across
7	--	--	--	--
8	--	--	--	--
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	--	--	1240.00

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 kVA
	DG set as Power back-up during construction phase	as per requirement
	During Operation phase (Connected load):	3340 KW
	During Operation phase (Demand load):	1176 KW
	Transformer:	630 KVA- 1 NO. & 1000 KVA -1 No.
	DG set as Power back-up during operation phase:	1 No. of 140 kVA DG
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Reduction in consumption by using Energy Saving Measure:
1. Use of LED lamps for common area (Landscape)
2. Stair-case, Lift lobby, Passage parking Lightings

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	AVERAGE ANNUAL ENERGY SAVINGS	--
2	SAVINGS ON ONLY SOLAR PANELS	--
3	ADDITIONAL AVERAGE ANNUAL ENERGY SAVINGS WITH SOLAR WATER HEATING	--

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:**	--
	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	PPE	--	5.00
2	Site Sanitation Facility	--	4.00
3	Drinking water facility	--	2.00
4	Solid Waste Management	--	2.50

5	Safety railing, platform, ladder, hoist, Cranes etc.	--	6.00
6	House keeping	--	2.00
7	Health Check	--	1.00
8	Environmental Monitoring	--	1.50
9	Anti-rusting coating on foundation steel bars	--	5.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain water Harvesting	--	21.00	0.84
2	Sewage Treatment Plant	--	45.00	3.00
3	Solid Waste Management	--	4.00	0.40
4	Landscaping	--	15.00	0.50

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	1 podium and area 3375 Sq. Mt.
	Total Parking area:	4139.00 Sq. Mt.
	Area per car:	12.50 Sq. Mt.
	Area per car:	12.50 Sq. Mt.
	Number of 2-Wheelers as approved by competent authority:	Scooter Required: 387 Nos. and Scooter Proposed: 387 Nos. ; Cycle Required: 350 Nos. and Cycle Proposed: 350 Nos.
	Number of 4-Wheelers as approved by competent authority:	Required: 230 Nos. and Proposed: 230 Nos.
	Public Transport:	--
	Width of all Internal roads (m):	7.5 & 12 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 (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 26000 m2, FSI area of 24940.54 m2, Non FSI area of 21628.67 m2 and total BUA of 46,569.21 m2.

The building configuration of the proposal is as below:

1 Building A Stilt on ground floor + stilt podium + 12 upper Floors + 24 Flats Height 36.00 m

2 Building B Stilt on ground floor + stilt podium + 12 upper Floors + 24 Flats Height 36.00 m

3 Building C Stilt on ground floor + stilt podium + 12 upper Floors + 24 Flats Height 36.00 m

4 Building D Stilt on ground floor + 12 Floors + 24 Flats Height 36.00 m

5 Building E Stilt on ground floor + 12 Floors + 24 Flats Height 36.00 m

6 Building F Stilt on ground floor + 12 Floors + 70 Flats Height 39.20 m

PP informed that the total constructed area on site is: 44841.72 m2 till date.

DECISION OF SEAC

The Committee noted that PP has NOT applied within the within the stipulated amenity period as per the MoEF&CC Notification dated 14/03/2017 and 8/03/2018.

The Committee decided to ***refer the proposal to SEIAA*** for further needful action.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

102 SEAC-3 meeting day 02

SEAC Meeting number: 102 **Meeting Date** January 23, 2020

Subject: Environment Clearance for Rejuvenation Project for Pawana River

Is a Violation Case: No

1.Name of Project	Rejuvenation Project for Pawana River
2.Type of institution	Government
3.Name of Project Proponent	Pimpri Chinchwad Municipal Corporation
4.Name of Consultant	Green Circle, Inc.
5.Type of project	River Rejuvenation Project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Pimpri Chinchwad
9.Taluka	Pimpri Chinchwad
10.Village	Pimpri Chinchwad
Correspondence Name:	Mr. Makarand Dnyanoba Nikam
Room Number:	NA
Floor:	NA
Building Name:	PCMC Building
Road/Street Name:	NA
Locality:	Pimpri
City:	Pimpri
11.Whether in Corporation / Municipal / other area	Municipal
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 00
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.)	257.91 ha
16.Deductions	00
17.Net Plot area	257.91 ha
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 00
	b) Non FSI area (sq. m.): 00
	c) Total BUA area (sq. m.): 00
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: 28-01-2019
19.Total ground coverage (m2)	2398563
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	2398563
21.Estimated cost of the project	14530000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	THERE WILL BE NO TENANTS
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6 m
29.Existing structure (s) if any	There are no existing structures
30.Details of the demolition with disposal (If applicable)	There will be no demolition

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):	75
	Recycled water - Flushing (CMD):	00
	Recycled water - Gardening (CMD):	410
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	485
	Fire fighting - Underground water tank(CMD):	00
	Fire fighting - Overhead water tank(CMD):	00
	Excess treated water	00

Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	75
	Recycled water - Flushing (CMD):	00
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	75
	Fire fighting - Underground water tank(CMD):	00
	Fire fighting - Overhead water tank(CMD):	00
	Excess treated water	410
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:**	1 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	THERE ARE NO UGT TANKS

35.Storm water drainage	**Natural water drainage pattern:**	CATCHMENT AREA- 505 SQ.KM
	Quantity of storm water:	NA
	Size of SWD:	NA

Sewage and Waste water	**Sewage generation in KLD:**	FROM THE PROPOSED PROJECT
	STP technology:	SBR
	Capacity of STP (CMD):	EXISTING- NOS. - 8; PROPOSED- 2 NOS
	Location & area of the STP:	VARIOUS PLACES IN CITY
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	120 Kg/Day
	Disposal of the construction waste debris:	PCMC Authorized Vendor
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	WILL BE SENT TO WASTE DISPOSAL FACILITY OF PCMC AFTER SEGREGATION IF GENERATED
	Wet waste:	WILL BE SENT TO WASTE DISPOSAL FACILITY OF PCMC AFTER SEGREGATION IF GENERATED
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

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 :**	NA
	No of trees to be cut :	NA
	Number of trees to be planted :	NA
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Syzygium caryophyllatum	JAMUN	-	BEAUTIFICATION AND EDIBL
2	Samanea saman	SIRIS	-	BEAUTIFICATION
3	Mangifera Indica	MANGO	-	EDIBLE
4	Azadirachta Indica	NEEM	-	BEAUTIFICATION AND MEDICINE
5	Pongamia pinnata	KARANJ	-	BEAUTIFICATION AND MEDICINE
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Bougainvillea Purple	-	-
2	Bougainvillea Pink Barbara Karst	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	0.2 MVA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	2 MVA
	During Operation phase (Demand load):	NA
	Transformer:	NA
	DG set as Power back-up during operation phase:	NA
	Fuel used:	NA
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

LED LIGHTS WILL BE USED FOR STREET LAMPS

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED LAMPS	NA

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:**	NA
	O & M cost:	NA

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	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	DETAILS OF EMP WILL BE PROVIDED IN EIA REPORT.
	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 Rejuvenation Project for Pawana River comprising area of 257.91 ha.

PP was issued Terms of Reference in 94th 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(b)B1.

DECISION OF SEAC

During discussion following points emerged:

1. The Committee noted that PP has included project activities in CER. PP to undertake activities other than those included in the proposal but useful for public. 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. All the major recreation spots proposed along the river including ghats etc. be indicated on one plan and the roads heading to these spots shall be clearly indicated.

3. Present width of all approach roads shall be mentioned and the proposed width as per DP be indicated along side.

4. Traffic volume on the approach road at present and the projected volume after 5, 10 and 15 years shall be calculated and tabulated. Assumptions made for projections shall be clearly mentioned.

5. Pedestrian volume and foot falls on the ghats and recreation spots shall also be indicated approach-wise and facilities provided for safe and convenient movement to be listed and submitted. A single plan showing all the spots and ghats shall be submitted.

6. PP has stated that detailed plan in respect of tree plantation is yet to be prepared. PP to obtain prior permission of tree authority before cutting any tree.

7. PP to submit indemnity bond indemnifying Environment Department, GoM from any legal consequences.

8. PP to provide details of removal of water hyacinth and prevention plan for repeated growth.

9. PP to provide details of wastewater in different sections separately wherein only domestic sewage and where industrial waste is contaminating. PP to submit design details for proposed STPs, ETPs and revamping of existing treatment plan.

10. PP to provide analysis reports of sediments and silt in various sections of river.

11. PP to provide length wise data on current dissolve oxygen (DO) levels, BOD and TSS of river water.

12. PP to provide details of aquatic life in river.

13. PP to provide details of flood modelling in 2D/3D. PP to provide details of management plan for reducing flood risk.

14. PP to provide details of activities along the river which are planned including existing / proposed ghats and environment mitigation plan.

15. PP to submit permissions for changing flow path modifications.

16. PP to submit details of integrated solid waste management plan for catchment area including primary segregation, collection and disposal etc.

17. PP to submit details of screens or any proposed insitu treatment on drains discharging to river.

18. PP to submit geohydrology report and water balance through modelling for interaction of surface and ground water.

19. PP to submit details of IEC and public awareness and methods for avoiding the river pollution due to interaction of public. PP to incorporate the details in EMP.

20. PP to prepare a detailed project specific, site specific, executable and auditable EMP.

21. PP to submit undertaking regarding compliance of and meeting with all the prevailing environmental norms / parameters in force.

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

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.

SEAC Meeting number: 102 **Meeting Date** January 23, 2020

Subject: Environment Clearance for Proposed Residential Project

Is a Violation Case: Yes

1.Name of Project	"Shree Gajanan Park"
2.Type of institution	TOR
3.Name of Project Proponent	Shree Buildcon & Associates
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.258/2/2/1+2+3+ 258/2/3/3
9.Taluka	Deolali
10.Village	Deolali
Correspondence Name:	Mr. Bajirao K. Suryawanshi.(Partner
Room Number:	S-1
Floor:	Second Floor
Building Name:	Regimental Plaza
Road/Street Name:	NA
Locality:	Nashik
City:	Nashik
11.Whether in Corporation / Municipal / other area	Nashik Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Plans sanctioned by Collector, No. LND/BP/C3/194, Dated :-20/12/2010
	IOD/IOA/Concession/Plan Approval Number: Plans sanctioned by Collector, No. LND/BP/C3/194, Dated :-20/12/2010
	Approved Built-up Area: 28781
13.Note on the initiated work (If applicable)	Environment departemnt had issued final directions vide letter No. SEAC- 2011/CR- 89/TC 11 dated 22/07/2013 And MPCB has filed legal case against us bearing case no.199.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	23,906.00
16.Deductions	3077
17.Net Plot area	20829.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22408.89
	b) Non FSI area (sq. m.): 11915.40
	c) Total BUA area (sq. m.): 34325
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 28780.04
	Approved Non FSI area (sq. m.): 15000
	Date of Approval: 20-12-2010
19.Total ground coverage (m2)	4454.43
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21
21.Estimated cost of the project	5242

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Manomay	Stilt Parking +9	28.05
2	Swaroop	Stilt Parking +9	28.05
3	Shuban	Stilt Parking +9	28.05
4	Arihant	Stilt Parking +9	28.05
5	Amit	Stilt Parking +9	28.05
6	Anant	Stilt Parking +9	28.05
7	Balchandra	Ground + 1	6.60
8	Balganpati	Ground + 1	6.60
9	Kapila	Stilt Parking +9	28.05
10	Club-House	Ground + 1	6.60

23.Number of tenants and shops	No. of Tenements:- 300
24.Number of expected residents / users	1500
25.Tenant density per hectare	150 Tenements / hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	60.00 Mt wide Road abutting to Plot and the Fire Station 2.5 KM from project site
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9m.
29.Existing structure (s) if any	• Environment departemnt had issued final directions vide letter No. SEAC- 2011/CR- 89/TC 11 dated 22/07/2013 And MPCB has filed legal case against us bearing case no.199.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	NMC
	Fresh water (CMD):	135
	Recycled water - Flushing (CMD):	68
	Recycled water - Gardening (CMD):	22
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	225
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	125
	Excess treated water	93
Wet season:	**Source of water**	NMC
	Fresh water (CMD):	135
	Recycled water - Flushing (CMD):	68
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	203
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	125
	Excess treated water	115
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:**	Below 10 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	13 Nos.
	Size of recharge pits :	having size 4mt X 4mt. X 4mt
	Budgetary allocation (Capital cost) :	5.2 Lacs
	Budgetary allocation (O & M cost) :	0.6 lacs
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	NE to SW
	Quantity of storm water:	0.31 m3/Sec
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	203 m3/day
	STP technology:	SBR
	Capacity of STP (CMD):	1 NO. OF 210 m3
	Location & area of the STP:	159.5 m2
	Budgetary allocation (Capital cost):	55.0 lacs
	Budgetary allocation (O & M cost):	15.91lacs/ annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	37 Kg/Day
	Disposal of the construction waste debris:	used on site for filling.
Waste generation in the operation Phase:	**Dry waste:**	300KG/DAY
	Wet waste:	450 KG/DAY
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	30 Kg/day
	Others if any:	not any

Mode of Disposal of waste:	**Dry waste:**	handed over to authorized recyclers
	Wet waste:	Smart 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:	30m2
	Area for machinery:	20 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	13.25 lacs.
	O & M cost:	4.56 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	1	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	HSD	Not applicable	HSD	HSD
41.Source of Fuel		Near by pump		
42.Mode of Transportation of fuel to site		via road		

43.Green Belt Development	**Total RG area :**	3196.20 m2
	No of trees to be cut :	0
	Number of trees to be planted :	307
	List of proposed native trees :	307
	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	Ficus retusa	Nandruk	37	Evergreen and Birds attracting tree.,
2	Pongamia pinnata	Karanj	16	ornamental & medicinal plant
3	Michelia champaca	Chafa	30	Evergreen timber plant, ornamental,
4	Azadiricta indica	Neem	40	Nitrogen fixer, ornamental plant
5	Pluumeria rubra	Red Chafa	14	Fast growing drought resistant tree, ornamental, used for silviculture
6	Pluumeria alba	White Chafa	10	Evergreen ornamental & religious plant
7	Anthocephalus cadamba	Cadamb	26	timber yielding and fruit bearing plant
8	Mangifera indica	Amba	20	Evergreen medicinal plant
9	Saraca indica	Sita ashok	13	Evergreen and Birds attracting tree.,
10	Livistona rotundifolia	Areca palm	25	Evergreen tree
11	Caryota urens	Fishtail palm	30	Evergreen tree
12	Hyophobe legenicaulis	Campagne palm	06	Evergreen tree
13	Syzium cumini	Jambul	15	Evergreen tree fruit bearing tree
14	Areca catechu	Areca palm	25	Evergreen tree 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)	40KVA
	DG set as Power back-up during construction phase	62.5KVA
	During Operation phase (Connected load):	1413 KW
	During Operation phase (Demand load):	989.17 KVA
	Transformer:	4 nos. of 315 KVA
	DG set as Power back-up during operation phase:	2nos. (82.5 KVA & 62.5KVA each)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

• Using 15W CFL lamps lumini sires in all Loby & Parking instead of 36W Normal tube light
• Use of Energy efficient lamps like T5 / CFL / LED as per design. Use of Energy efficient equipments like low loss Transformers & Switchgears
• Extra Energy Saving by using 50% Street lights in Solar system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• Using 15W CFL lamps lumini sires in all Loby & Parking instead of 36W Normal tube light • Use of Energy efficient lamps like T5 / CFL / LED as per design. Use of Energy efficient equipments like low loss Transformers & Switchgears • Extra Energy Saving by using 50% Street lights in Solar system	37%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	STP
Emission	Not applicable	DG SET WITH STACK
MSW	Not applicable	SMART composting machine

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	7.25Lacs
	O & M cost:	0.07lacs

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	132
2	Water Environment	Tanker water for construction Water monitoring	1.44
3	Land Environment	Site Sanitation Maintenance	3.85
4	Biological Environment	Gardening	3.76
5	Socio- Economic Environment	Disinfection at site Safety, First Aid, Health Hygiene Facilities Health Check Up Crèches for children Personal Protective Equipment	3.26

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	treatment of sewage	55.0	15.91
2	RWH	pits	5.2	0.6
3	OWC	composting machine	13.25	4.56
4	Landscaping	gardening	37.66	4.73
5	Electrical	solar pannels	7.25	0.07

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:	We had Proposed our Entry- Exits for Residential Vehicles from 24m Wide

Parking details:	Number and area of basement:	0
	Number and area of podia:	0
	Total Parking area:	3433.62 Sq. M.
	Area per car:	30
	Area per car:	30
	Number of 2-Wheelers as approved by competent authority:	225
	Number of 4-Wheelers as approved by competent authority:	300
	Public Transport:	via bus
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(A)
	Court cases pending if any	No
	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 23906 m2, FSI area of 22408.89 m2, Non FSI area of 11915.40 m2 and total BUA of 34325 m2.

The building configuration of the proposal is as below:

1	Manomay	Stilt Parking +9	Height 28.05 m
2	Swaroop	Stilt Parking +9	Height 28.05 m
3	Shuban	Stilt Parking +9	Height 28.05 m
4	Arihant	Stilt Parking +9	Height 28.05 m
5	Amit	Stilt Parking +9	Height 28.05 m
6	Anant	Stilt Parking +9	Height 28.05 m
7	Balchandra	Ground + 1	Height 6.60 m
8	Balganpati	Ground + 1	Height 6.60 m
9	Kapila	Stilt Parking +9	Height 28.05 m
10	Club-House	Ground + 1	Height 6.60 m

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: 34325 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. The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 1.52 Cr. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 1.048 Cr which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 1.52 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:

1) The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 1.52 Cr. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 1.048 Cr which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 1.52 Cr for the project completion period.

FINAL RECOMMENDATION

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

102 SEAC-3 meeting day 02

SEAC Meeting number: 102 **Meeting Date** January 23, 2020

Subject: Environment Clearance for Proposed Mix development project " Raja Bahadur City centre" at F.P.No. 100+101/1, Sangamwadi, Pune by Raja Bahadur International Ltd

Is a Violation Case: No

1.Name of Project	Proposed Mix development project " Raja Bahadur City centre" at F.P.No. 100+101/1, Sangamwadi, Pune by Raja Bahadur International Ltd
2.Type of institution	TOR
3.Name of Project Proponent	Mr. Shridhar Pittie
4.Name of Consultant	Ms. Sayali Jagtap (EIA Coordinator-J M EnviroNet Pvt Ltd)
5.Type of project	Mix development
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	No
8.Location of the project	F.P.No. 100+101/1, Sangamwadi, Pune
9.Taluka	Haveli
10.Village	Sangamwadi
Correspondence Name:	Mr. Vaibhav Pittie
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	F.P.No. 100+101/1, Sangamwadi, Pune
Locality:	Sangamwadi
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 312381.95
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	81575.11 sq. m
16.Deductions	7653.63 sq. m
17.Net Plot area	73921.48 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,69,723.37 sq. m
	b) Non FSI area (sq. m.): 1,42,658.58 sq. m
	c) Total BUA area (sq. m.): 312381.95
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)	41020.48 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	55.49 %
21.Estimated cost of the project	7559700000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Existing Shed 1 (Offices)	Ground Floor	9.15 m
2	Existing Shed 2 (Restaurants)	Ground Floor	7.80 m
3	Retails +Cinema +Parking building	2 Basement +Ground+ 7 floors	29.95 m
4	Commercial Tower 01	2 basement + Ground+ 16 floors	69.15m
5	Commercial Tower 02	2 basement+ Ground +4 podium + 20 floors	98.75 m
6	Commercial Tower 03	2 basement+ Ground +4 podium + 13 floors	74.20 m
7	Service apartment (Hotel bldg)	2 Basement+ Ground +2 podium + 21 floors	88.95 m
8	Utility building	Ground + 1 floor	12.75m
9	Club (Amenity building)	2 Basement+ Ground+ 4 floor	20 m
10	Club house	Ground+ 1 floor	6.75 m

23.Number of tenants and shops	Existing Offices & Restaurants Proposed : 1. Service apartment(Hotel) : 342 no's 2. Commercial buildings.
24.Number of expected residents / users	Existing (Offices + Restaurant) : 1990 persons , Proposed : Service apartment(Hotel) : 684 no's ,Commercial floating population : • Cinema building – 3968 • Commercial building 01 – 4676 • Commercial building 02 – 7358 • Commercial building 03 – 7750 • Club (Amenity building) & club house – 4915 Total project population (Existing +Proposed) : 31341 persons.
25.Tenant density per hectare	4241 /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)	Existing 24 m road , Proposed 30 m DP road Nearest fire station: Dayaram Raj guru Fire station. Distance : 0.3 km.
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	Existing Offices , Restaurants
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):	527.8
	Recycled water - Flushing (CMD):	491.61
	Recycled water - Gardening (CMD):	79.75
	Swimming pool make up (Cum):	20.03
	Total Water Requirement (CMD) :	1119.19
	Fire fighting - Underground water tank(CMD):	1025
	Fire fighting - Overhead water tank(CMD):	160
	Excess treated water	397.65
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	527.8
	Recycled water - Flushing (CMD):	491.61
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	20.03
	Total Water Requirement (CMD) :	1039.43
	Fire fighting - Underground water tank(CMD):	1025
	Fire fighting - Overhead water tank(CMD):	160
	Excess treated water	477.40
Details of Swimming pool (If any)	• Dimension of Swimming Pool: 15.0m x 25.0m • Total water Requirement in KLD: 364 cum • Water requirement for make up in KLD: 20.03 cum • Capital Cost: Rs. 93,75,000 /- • O & M cost: - Rs. 9,37,500 /-	

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 5m (BGL) , Pre monsoon 8 m(BGL)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	14 no's
	Size of recharge pits :	2 x 2 x 2 m with 178 mm dia 60 meter depth
	Budgetary allocation (Capital cost) :	Rs. 7,25,000 /-
	Budgetary allocation (O & M cost) :	Rs. 70,000 /-
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : For Existing : 40 KLD , UGT 01 (Phase I) : 173 KLD , UGT 02 (Phase II) : 459 KLD , UGT 3(Phase III): 151.19 KLD Flushing tank Capacity(cum) : 394.5 KLD Fire UG tank Capacity (cum) : 1025 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	70.03 m3/min.
	Size of SWD:	900 mm
Sewage and Waste water	**Sewage generation in KLD:**	969 KLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	STP 01 (For Existing + Phase I) : 267 KLD, STP 02 (For Phase II) : 545 KLD , STP 03 (For Phase III) : 160 KLD
	Location & area of the STP:	STP 1 : 131 sq. m , STP 2 : 352 sq. m , STP 3 : 110 sq. m
	Budgetary allocation (Capital cost):	Rs. 74,70,000 /-
	Budgetary allocation (O & M cost):	Rs. 24,39,295 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total solid waste : 150 kg/day (Wet waste : 90 kg/day , Dry waste : 60 kg/day)
	Disposal of the construction waste debris:	The 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:**	4601 kg/day
	Wet waste:	3234 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	96 kg/day
	Others if any:	E-waste : 85.86 kg/day

Mode of Disposal of waste:	**Dry waste:**	To authorized vendor SWACH
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as a manure
	Others if any:	E-waste will be handed over to authorized vendor SWACH
Area requirement:	**Location(s):**	Shown in plan
	Area for the storage of waste & other material:	OWC 1 : 8 sq. m OWC 2 : 17.5 sq. m OWC 3 : 22 sq. m OWC 4: 13.5 sq. m
	Area for machinery:	OWC 1 : 24 sq. m OWC 2 : 52.5 sq. m OWC 3 : 104.5 sq. m OWC 4: 45 sq. m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 91,00,000 /-
	O & M cost:	Rs. 19,74,379 /-

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 on ground : 7754.48 sq. m
	No of trees to be cut :	40 no's
	Number of trees to be planted :	798 no's + 126 (existing trees)
	List of proposed native trees :	List of existing + Proposed trees is 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	SARCA ASOCA	Ashoka	17	larger and highly spreading common in cultivation
2	FICUS RELIGIOSA	Umber	02	Buddha tree, significant for Hindu and Buddhist, shaded tree
3	PELTOPHORUM PETROCARPUS	Kashid	17	Dense tree provide shade in summer
4	SAMANIA SAMAN	Rain tree	10	Shade giving ornamental plant
5	LEUCAENA LEUCOCEPHALA	Su babul	03	Medicinal use, attract to birds
6	DELONIX REGIA	Gulmohar	09	Dense tree provide shade in summer
7	SPATHODIA COMPANULATA	Spathodia	03	Shade giving ornamental plant
8	JACRANADA MIMOSIFOLIA	Jacranada	02	tree provide shade in summer
9	SYZGIUM CUMINI	Jambhul	03	Medicinal value, with good amount of fruits
10	CASSIA FISTULA	Bahawa	01	Medicinal value, Drought tolerant species, ornamental, flowering plant, Honey bee attracting species, Host plant for Butterfly
11	EUCALYPTUS	Nilgiri	05	Medicinal use, pollution of air
12	TERMINALI CATTAPA	Badam	06	Medicinal value
13	FICUS RELIGIOSA	Pimpal	06	Bodhi tree,significant for hindu and Buddhist,shaded tree
14	VACHELLIA NILOTICA	Australian babul	01	Drought tolerant species, ornamental
15	CEDRUS DEODAR	Deodar	01	insects avoid this tree, ornamental tree
16	GRAVELLIA ROBUSTA	Walwa	03	it can tolerate light shade, flowering tree
17	AZADIRACHTA INDICA	Neem	140	Native, Medicinal value, to control soil erosion, Evergreen
18	ARTOCARPUSA	Shindhi	01	Fruit tree, evergreen tree
19	AILANTHUS EXCLESA	Maharuk	02	Evergreen tree, medicinal value

20	TAMRINADUS INDICA	Chinch	01	beautiful fruiting tree, medicinal tree
21	FICUS BENGALENSIS	Banyan	01	Its indina banyan called fig.with shade
22	VACHELLIA NILOTICA	Babul	28	Drought tolerant species, ornamental
23	BAUHINIA VARIGATED	Kanchan	169	creates shade, attracts birds/butterflies/bees, good for screening
24	LAGERSTROMIA SPECIOSA	Taman	163	creates shade, attracts birds/butterflies/bees, good for screening
25	MELIA AZDERACH	Bakan Neem	128	Evergreen medicinal tree
26	TERMINALI ARJUNA	Arjuna	50	large deciduous tree with spreading crowns
27	ROYESTONIA REGIA	Royal	152	Royal variety, evergreen palm
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)	100 KVA
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	22292 KW
	During Operation phase (Demand load):	16016 KW
	Transformer:	Total no's of Transformers: 26 : Commercial buildings - 24 x 630 KVA , Serviced Apartment + Club(Amenity)+ Utility - 2 x 630 KVA
	DG set as Power back-up during operation phase:	Total no's of DG : 19 1 x 810 KVA , 11 x 750 KVA, 3 x 600 KVA , 3 x 300 KVA , 1 x 200 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	N

48.Energy saving by non-conventional method:

1. LED
2. Analog dimmers
3. Solar hot water system only for serviced apartments
4. Solar PV panels
5. Real Time Timers
6. Energy efficient V3F lifts
7. Star rated pumps
8. Transformers as per BIS II standards

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar hot water + Solar PV	250 KWP (Based on 1% of total demand as Solar PV)
2	Total % of savings	20.50 %

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. 1,05,30,000 /-
	O & M cost:	Rs. 3,50,000 /-

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, barricading & top soil preservation	Rs. 5,76,000 /-
2	Land	Site Sanitation	Rs. 5,00,000 /-
3	Health & safety	Safety equipment's & training	Rs. 2,50,000 /-
4	Environment management	Environmental Monitoring	Rs. 1,20,000 /-
5	Health & safety	Disinfection and Health Check-ups	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	Sewage Treatment Plant	3 no's of STP's	Rs. 74,70,000 /-	Rs. 24,39,295 /-
2	Rain Water Harvesting	14 no's of pits	Rs. 7,25,000 /-	Rs. 70,000 /-
3	Solid Waste Management	4 no's of OWC's	Rs. 91,00,000 /-	Rs. 19,74,379 /-
4	Green Belt Development	798 trees	Rs. 45,90,000 /-	Rs. 12,00,000 /-
5	Energy details	Solar PV panels + Solar hot water	Rs. 1,05,30,000 /-	Rs. 3,50,000 /-
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:	Existing 24 m road , Proposed 30 m DP road
Parking details:	**Number and area of basement:**	2 basements & part basement Area : 55876.06 sq. m
	Number and area of podia:	4 Podium, Area : 39742.27 sq. m
	Total Parking area:	95618.33 SQ.M.
	Area per car:	12.5 sq. M as per DC rule
	Area per car:	12.5 sq. M as per DC rule
	Number of 2-Wheelers as approved by competent authority:	Scooters – 9042 , Cycles - 3398
	Number of 4-Wheelers as approved by competent authority:	3557
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 & 9.00 m internal driveways.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	B1
	Court cases pending if any	NA
	Other Relevant Informations	No

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	22-12-2017

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

PP had submitted application for prior Environmental clearance for total plot area of 81575.11 m2, FSI area of 169723.37 m2, Non FSI area of 142658.58 m2 and total BUA of 312381.95 m2.

The building configuration of the proposal is as below:

1	Existing Shed 1 (Offices)	Ground Floor	Height 9.15 m
2	Existing Shed 2 (Restaurants)	Ground Floor	Height 7.80 m
3	Retails +Cinema +Parking building	2 Basement +Ground+ 7 floors	Height 29.95 m
4	Commercial Tower 01	2 basement + Ground+ 16 floors	Height 69.15m
5	Commercial Tower 02	2 basement+ Ground +4 podium + 20 floors	Height 98.75 m
6	Commercial Tower 03	2 basement+ Ground +4 podium + 13 floors	Height 74.20 m
7	Service apartment (Hotel bldg)	2 Basement+ Ground +2 podium + 21 floors	Height 88.95 m
8	Utility building	Ground + 1 floor	Height 12.75m
9	Club (Amenity building)	2 Basement+ Ground+ 4 floor	Height 20 m
10	Club house	Ground+ 1 floor	Height 6.75 m

The PP was issued ToR in 87th SEAC-3 meeting. The PP has submitted EIA report accordingly. The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(b)B1.

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit basement approval plan as well as lower ground approval along with approval for puzzle parking.

2. PP has stated that about 260000 m3 debris will be handed over to PMC, however no document in this support to the said statement is submitted. PP to obtain special consent letter from PMC or any other authority in this regard. PP also to submit details (viz. capacity, cross section, contour plan etc.) of land where the debris will be disposed.

3. PP to submit co-ordinated master layout superimposing all environmental parameters.

4. PP to submit details of UGT.

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

6. PP to submit details of energy saving.

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.

102 SEAC-3 meeting day 02

SEAC Meeting number: 102 **Meeting Date** January 23, 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 for total plot area of 55724.00 m2, FSI area of 59121.08 m2, Non FSI area of 35768.95 m2 and total BUA of 94890.03 m2.

The building configuration of the proposal is as below:

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

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: 57192.02 m2.

PP was issued Terms of Reference in 85th 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 explore possibility to propose separate STP and OWC for buildings on the land towards south side of 30 m wide DP road and revise the capacities of other proposed STP and OWC.

2. PP has proposed to discontinue existing 625 KLD STP and construct a new 670 KLD STP including sewerage of existing building.

3. PP has stated that a storm water drain on 30 m wide DP road will be laid upto final disposal point nearby nalla. PP to design the same considering the disposal from other properties towards upstream and submit design details.

4. PP to confirm whether forest land is included in affected area of 10 km radius.

5. PP to submit details of fugitive dust modelling by using local meteorological data.

6. PP to obtain and submit following NOC's: (a) CFO NOC, (b) Water supply with quantity, (c) Drainage NOC.

7. PP to submit undertaking for retaining of existing trees and submit plantation plan incorporating local native fruit bearing trees.

8. 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. 3.1063 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.

SEAC Meeting number: 102 **Meeting Date** January 23, 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 for total plot area of 21620.22 m2, FSI area of 36690.63 m2, Non FSI area of 36539.84 m2 and total BUA of 73230.47 m2.

The building configuration of the proposal is as below:

1	Building 1 - 1 No.	P + 16 Floors	Height 46.40 m
2	Building 2 - 1 No.	2P + 16 Floors	Height 46.40 m
3	Building 3 - 1 No.	2P + 16 Floors	Height 46.40 m
4	Building 4 - 1 No.	2P + 16 Floors	Height 46.40 m
5	Club House	G + 1	Height 7.70 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

During discussion following points emerged:

1. UGT is proposed below building footprint and RCC structural columns of the building are located within the alignment of the UGT. PP to submit details of the treatment measures proposed for protecting the columns.

2. PP has stated that about 48 number of occupants are staying in chawls situated on plot. PP to submit NOC / consent from the existing occupants for proposed work.

3. PP to submit a plan showing the layout of internal storm water drain considering the plantation of trees.

4. PP to submit cross section at 4-5 places including UGT, OWC and DG set location showing clear road width, distance left from building line and spaces left for plantation, parking, service lines, foot paths, etc.

5. High tension line is passing through the project. PP to submit NOC as applicable.

6. Master plan indicates a relatively large protion of the plot as stilt parking. Reson for this area not buildable should be provided.

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.

102 SEAC-3 meeting day 03

SEAC Meeting number: 102 **Meeting Date** January 24, 2020

Subject: Environment Clearance for Proposed Amendment of Environmental Clearance of Residential Township at Mamurdi , Pune Plot No 1 bearing S. No. 10/1A/3, 10/1B, 11/1A, 11/2A(P), 11/3, 11/4(P), 11/4/2, 11/1B, 12/1, 12/2/1, 12/2/2, 12/2/3, 13/2, 13/1B(P) at Taluka-Haveli, Village-Mamurdi, Pune, Maharashtra.

Is a Violation Case: No

1.Name of Project	Proposed Amendment of Environmental Clearance of Residential Township at Mamurdi , Pune Plot No 1 bearing S. No. 10/1A/3, 10/1B, 11/1A, 11/2A(P), 11/3, 11/4(P), 11/4/2, 11/1B, 12/1, 12/2/1, 12/2/2, 12/2/3, 13/2, 13/1B(P) at Taluka-Haveli, Village-Mamurdi, Pune, Maharashtra.
2.Type of institution	Private
3.Name of Project Proponent	Godrej Skyline Developers Private Limited
4.Name of Consultant	Building Environment India Pvt. Ltd. Dakshina Building, Office No-401, 4th Floor, Sector 11, CBD Belapur, Navi Mumbai, Maharashtra 400614
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in Existing Environmental Clearance
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental Clearance has been obtained on 15th January ,2019
8.Location of the project	Plot No 1 bearing S. No. 10/1A/3, 10/1B, 11/1A, 11/2A(P), 11/3, 11/4(P), 11/4/2, 11/1B, 12/1, 12/2/1, 12/2/2, 12/2/3, 13/2, 13/1B (P)at Taluka-Haveli, Village-Mamurdi, Pune, Maharashtra
9.Taluka	Haveli
10.Village	Mamurdi
Correspondence Name:	Godrej Skyline Developers Pvt. Ltd. Godrej Eternia, 10th Floor, C wing, Wakdewadi, Shivaji Nagar, Pune: - 411005.
Room Number:	--
Floor:	10th Floor, C wing
Building Name:	Godrej Eternia
Road/Street Name:	Wakdewadi
Locality:	Shivaji Nagar
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: Mamurdi/01/2018 Dt – 12-10-2018
	Approved Built-up Area: 294794.33
13.Note on the initiated work (If applicable)	Construction started as per received EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	84,401.34 sq. mt.
16.Deductions	16,067.49 sq.mt.
17.Net Plot area	68,333.85 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,46,950.99
	b) Non FSI area (sq. m.): 1,47843.34
	c) Total BUA area (sq. m.): 294794.33
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 1,50,870.89
	Approved Non FSI area (sq. m.): --
	Date of Approval: 25-01-2019
19.Total ground coverage (m2)	34,089.00

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50
21.Estimated cost of the project	5810000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	7 Towers -Tower-B1 to Tower-B7	S+22	69.95
2	7 Towers -Tower-A1 to Tower-A7	S+22	69.95
3	EWS	P1+P2+17	54.95
4	Club House-1	G	4.65
5	Club House-2	G	4.65
6	MLCP-1 + Club House-3	P1+P2+P3	9.15
7	MLCP-2 + Club House-4	P1+P2+P3	9.15

23.Number of tenants and shops	Shops: 20 Nos; Flats: 2585 Nos.
24.Number of expected residents / users	Residents: 12925 Commercial: 60
25.Tenant density per hectare	378 tenant/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
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 M
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC / Tanker / STP Treated Water
	Fresh water (CMD):	Phase-1:576.00; Phase-2:540.00, EWS:95.00; Total:1211.00
	Recycled water - Flushing (CMD):	Phase-1:284.00; Phase-2:272.00, EWS:48.00; Total:604.00
	Recycled water - Gardening (CMD):	Phase-1:90.00; Phase-2:90.00, EWS: --; Total:180.00
	Swimming pool make up (Cum):	20
	Total Water Requirement (CMD) :	Phase-1:970; Phase-2:902, EWS:143.00; Total:2015.00
	Fire fighting - Underground water tank(CMD):	2 tanks of capacity 540 KLD each for Phase 1 & 2 3 tanks of capacity 150 KLD each for EWS, MLCP-1 & MLCP-2
	Fire fighting - Overhead water tank(CMD):	710 KLD per each tower
	Excess treated water	Phase-1:348.00; Phase-2:332.00, EWS:76.00; Total:756.00
Wet season:	**Source of water**	PCMC / Tanker / STP Treated Water
	Fresh water (CMD):	Phase-1:576.00; Phase-2:540.00, EWS:95.00; Total:1211.00
	Recycled water - Flushing (CMD):	Phase-1:284.00; Phase-2:272.00, EWS:48.00; Total:604.00
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	20
	Total Water Requirement (CMD) :	Phase-1:880; Phase-2:812, EWS:143.00; Total:1835.00
	Fire fighting - Underground water tank(CMD):	2 tanks of capacity 540 KLD each for Phase 1 & 2 3 tanks of capacity 150 KLD each for EWS, MLCP-1 & MLCP-2
	Fire fighting - Overhead water tank(CMD):	10 cum per each tower
	Excess treated water	Phase-1:348.00; Phase-2:332.00, EWS:76.00; Total:756.00
Details of Swimming pool (If any)	20 cu m.	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Average depth of Un-confined aquifer is at 7.00 m. to 10.60 m. Average depths of Confined aquifers are at 16.20 m. to 20.20 m., 46.00 m. to 56.00 m. & 82.00 m. to 92.00 m.
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	Phase-1 51 Nos; Phase-2:48 Nos. EWS: 5 Nos.
	Size of recharge pits :	2m Dia. and 2.5m effective depth.
	Budgetary allocation (Capital cost) :	50.00 L
	Budgetary allocation (O & M cost) :	5.00 L/annum
	Details of UGT tanks if any :	Under Ground Sump-1:- Domestic 420KLD,Flushing 272KLD,Gardening:31KLD Under Ground Sump-2:-Domestic-72KLD,Flushing -49KLD,Gardening-14KLD Under Ground Sump-3 :- Domestic-115KLD,Flushing -58KLD TANK WILL BE DESIGNED FOR 1.5 DAYS WATER DEMAND
35.Storm water drainage	**Natural water drainage pattern:**	Southwest
	Quantity of storm water:	Outfall 1 = 672.4 L/s Outfall 2 = 626.0 L/s Outfall 3 = 82.1 L/s
	Size of SWD:	SWD of Outfall 1 = 650mm x1200 mm SWD of Outfall 2 = 500mm x 750 mm SWD of Outfall 3 = 200 mm x 500 mm
Sewage and Waste water	**Sewage generation in KLD:**	Phase-1:760.00; Phase-2: 732.00, EWS:130.00; Total: 1622.00
	STP technology:	Moving Bed Bio reactor (MBBR)
	Capacity of STP (CMD):	3 Nos. Phase-1:760.00; Phase-2: 732.00; EWS:130.00;
	Location & area of the STP:	Underground Phase-1:344 m2 Phase-2: 340 m2 EWS:80 m2
	Budgetary allocation (Capital cost):	150.00 L
	Budgetary allocation (O & M cost):	45.00 L/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation waste :63500 cum Steel Bars MT 200 Broken tiles SFT 53900 Paint cans -20 lit Nos. 5528 Cement bags bags 81000 Packing Material LS 5 trucks
	Disposal of the construction waste debris:	From waste generation from proposed development 30% will be recycled on site & remaining will be handed over to Authorised Recyclers as per C&D waste Management Rule,2016
Waste generation in the operation Phase:	**Dry waste:**	4194 Kg/day
	Wet waste:	2952 Kg/day
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	83 Kg/day
	Others if any:	E waste: 0.15 T/year

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWaCH
	Wet waste:	Will be treated in Organic Waste Converter
	Hazardous waste:	Will be handled as per Hazardous waste Rules, 2018
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as a manure
	Others if any:	---
Area requirement:	**Location(s):**	Ground Floor
	Area for the storage of waste & other material:	Phase-1:30 m2 Phase-2:30 m2 EWS:30 m2
	Area for machinery:	Phase-1:56.60 m2 Phase-2:56.70 m2 EWS:16.50 m2 Total Area requirement for Waste Management Facility Phase-1:86.60 m2 Phase-2:86.70 m2 EWS:46.50 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	110.50 L
	O & M cost:	11.50 L/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable
41.Source of Fuel		Not applicable		

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	6835.39 sq.mt
	No of trees to be cut :	Trees may be affected: 62 Nos. Trees may be transplanted: 8 Nos. Trees may be retained:67 Nos.
	Number of trees to be planted :	1400 Nos.
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	Till the completion of the project.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Annona reticulata	Custard Apple	20	Edible fruit trees
2	Artocarpus altilis	Bread fruit	5	Edible fruit trees
3	Artocarpus heterothylla	Jackfruit	9	Edible fruit trees
4	Calophyllum inophyllum	Undi	24	Non Edible fruit tree & flowering
5	Cassia fistula	Bahava	93	Medium sized flowering tree
6	Cassia nodosa	Pink shower tree	56	Medium sized flowering tree
7	Erythrina indica	Pangara	82	Flowering tree
8	Ficus carica	Fig	15	Edible fruit trees
9	Kigelia pinnata	Sausage tree	57	Evergreen, shade giving, flowering
10	Mangifera indica	Mango	15	Edible fruit trees
11	Manikara zapota	Chikoo	12	Edible fruit trees
12	Morus alba	Mulberry	5	Edible fruit trees
13	Michelia champaca	Sonchafa	21	Flowering tree
14	Mimusops elengii	Bakul	55	Flowering tree
15	plumeria rubra	Red chafa	15	Flowering tree
16	Psidiun guajava	Peru	7	Edible fruit trees
17	Swietenia mahogany	Mahogany	24	Evergreen tree
18	Syzygium malaccense	Rose apple	9	Edible fruit trees
19	Syzygium sanarangense	Wax apple	18	Edible fruit trees
20	Peltophorum ferrugineum	Copper pod	6	Flowering tree
21	Delonix regia	Gulmohar	34	Flowering tree
22	Madhuca longifolia	Mahua	15	Flowering tree
23	Tebebuia rosea	Rosy trumpet tree	69	Flowering tree
24	Tebebuia white	White trumpet	32	Flowering tree
25	Ficus infectoria	Bassari	12	Evergreen tree
26	Plumeria obtusa	White chafa	17	Flowering tree
27	Putranjiva roxburghii	Jivanputra	25	Evergreen tree
28	Albizia lebbeck	Shirish	3	Evergreen tree

29	phoenix sylvesteris	Sugar date palm	4	Edible fruit trees
30	roystonea regia	Royal palm	2	Ornamental Palm
31	Total	Total	761	
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	Areca catechu	--	--
2	Butea monosperma	--	--
3	cassia fistula	--	--
4	cordia sebestena	--	--
5	Erythrina indica	--	--
6	Ficus auriculata	--	--
7	Jacaranda mimosifolia	--	--
8	michelia champaca	--	--
9	Nyctanthes arbo -tritis	--	--
10	Plumeria alba	--	--
11	Plumeria obtusa	--	--
12	Plumeria rubra	--	--
13	Spathodea campanulata	--	--
14	Tabebuia avellanedae	--	--
15	Tabebuia pallida	--	--
16	Tabebuia rosea	--	--
17	Bauhinia purpurea	--	--
18	Calophyllum inophyllum	--	--
19	Mimusops elengi	-	--
20	Phoenix sylvestris	--	--
21	Terminalia mantaly	--	--

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	300 kW
	DG set as Power back-up during construction phase	2 DG sets of 185 kVA capacity for construction
	During Operation phase (Connected load):	Phase-1: 8125.34 KW Phase-2: 7999.70 KW EWS: 1079.72 KW
	During Operation phase (Demand load):	Phase-1: 3734.28 KW Phase-2: 3634.17 KW EWS: 431.89 KW
	Transformer:	17Nos.630kVA 22kV/433V Transformer and 1No. of 100kVA 22kV/433V Transformer
	DG set as Power back-up during operation phase:	Phase-1: 1 DG set of 1010 kVA capacity and 1 DG set of 630 kVA Phase-2:1 DG set of 1010 kVA capacity and 1 DG set of 630 kVA EWS:1 DG set of 63 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

Solar Water Heater & Lighting will be provided
Solar PV system for External & Compound Wall Lighting- 158355.00 kWh
Solar Hot Water system for residential tower-1760535 kWh
Total Savings through Renewable Energy-1918890 kWh
savings -12%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	% Savings through Conventional Energy saving systems	9.05%
2	% of saving through Renewable energy	12%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water	Not applicable	STP
Soil	Not applicable	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	260.50 L
	O & M cost:	56.05 L/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	Dust pollution	Water spray for dust suppression	5.00

2	EHS	Site sanitation and Potable Water Supply to Labour	8.00
3	Environment monitoring	Environmental Monitoring (As per the CPCB guidelines through MoEF Approved laboratories)	4.00
4	EHS	Health check-up & first aid	5.00
5	Safety	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves etc.)	10.00
6	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	4.00
7	Safety nets	Safety nets	25.00
8	Storm water Management (SWD along plot boundary and Sedimentation Pits)	Storm water Management (SWD along plot boundary and Sedimentation Pits)	4.00
9	Passenger lift	Passenger lift	3.00
10	Tyre cleaning and Vehicle maintenance	Tyre cleaning and Vehicle maintenance	4.00
11	Safety Training to Workers (Twice in Year), Safety Officer	Safety Training to Workers (Twice in Year), Safety Officer	7.00
12	Disinfection	Disinfection	2.50
13	Debris & construction waste	Debris & construction waste	30.00
14	Total Cost	Total Cost	111.50

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	MBBR Technology	150.00	45.00
2	RWH	Recharge Pits	50.00	5.00
3	Landscape	-	50.00	10.00
4	SWM	OWC	110.5	11.05
5	Energy Saving	Solar PV Cells, Solar panels	557.00	--
6	DMP	DMP	3799.21	353.12
7	Total	Total	4716.21	424.12

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	3 Podiums= Podium1 - 17011 + Podium2 – 17011 Podium3- 15951
	Total Parking area:	49973 sq. m
	Area per car:	28.07 sq. m.
	Area per car:	28.07 sq. m.
	Number of 2-Wheelers as approved by competent authority:	Required Scooter: 5226 Nos. Proposed: Scooter: 5702 Nos. Required Cycle: 5190 Nos. Proposed Cycle: 5694 Nos.
	Number of 4-Wheelers as approved by competent authority:	Required 4 W: 1311 Nos. Proposed 4 W:2181 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	9.00 mt
	CRZ/ RRZ clearance obtain, if any:	--
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	--
	Category as per schedule of EIA Notification sheet	Townships and Area Development projects 8(b); Category: B
	Court cases pending if any	NA
	Other Relevant Informations	--

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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 84401.34 m2, FSI area of 146950.99 m2, Non FSI area of 147843.34 m2 and total BUA of 294794.33 m2.

The building configuration of the proposal is as below:

1	7 Towers -Tower-B1 to Tower-B7	S+22	Height 69.95 m
2	7 Towers -Tower-A1 to Tower-A7	S+22	Height 69.95 m
3	EWS	P1+P2+17	Height 54.95 m
4	Club House-1	G	Height 4.65 m
5	Club House-2	G	Height 4.65 m
6	MLCP-1 + Club House-3	P1+P2+P3	Height 9.15 m
7	MLCP-2 + Club House-4	P1+P2+P3	Height 9.15 m

PP was issued Terms of Reference in 93rd 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 proposal was further considered in 98th SEAC-3 meeting wherein certain compliance points were raised by the Committee.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit mitigation measures for noise levels.

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

*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

102 SEAC-3 meeting day 03

SEAC Meeting number: 102 **Meeting Date** January 24, 2020

Subject: Environment Clearance for Proposed Residential Project at S. no. 79 (P), Chikhali, Tal. Haveli, Pune by M/s. Nexus Enterprises

Is a Violation Case: No

1.Name of Project	Proposed Residential Project at S. no. 79 (P), Chikhali, Tal. Haveli, Pune by M/s. Nexus Enterprises
2.Type of institution	Private
3.Name of Project Proponent	Mr. Nareshkumar Patel
4.Name of Consultant	Ms. Sayali Jagtap (Approved EIA Coordinator)
5.Type of project	Residential 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	No
8.Location of the project	S. no. 79 (P), Chikhali, Tal. Haveli, Pune
9.Taluka	Haveli
10.Village	Chikhali
Correspondence Name:	Mr. Pranjal Patel
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	S. no. 79 (P), Chikhali, Tal. Haveli, Pune
Locality:	Chikhali
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation (PCMC)
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	12000 sq. m
16.Deductions	2133.69 sq. m
17.Net Plot area	9866.31 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 21943.23 sq. m
	b) Non FSI area (sq. m.): 19940.99 sq. m
	c) Total BUA area (sq. m.): 41884.29
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)	2453.35 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24.86 %
21.Estimated cost of the project	756700000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	Parking +12 floors	36 m
2	Building B	Parking +12 floors	36 m
3	Building C	Parking +12 floors	36 m
4	Building D	Parking +12 floors	36 m
5	Building E	Parking +06 floors	18 m
6	Club house	G + 1	7.20 m

23.Number of tenants and shops	Residential flats : 517
24.Number of expected residents / users	Residential population : 2585
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)	12 m & 18 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	232.65
	Recycled water - Flushing (CMD):	116.33
	Recycled water - Gardening (CMD):	7
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	355.98
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	20 for each building
	Excess treated water	159.34
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	232.65
	Recycled water - Flushing (CMD):	116.33
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	349.18
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	20 for each building
	Excess treated water	166.34
Details of Swimming pool (If any)	Not provided	

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 depth to water level 03.20 m bgl Pre monsoon water level 08.20 m bgl
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	04
	Size of recharge pits :	2 m x 2m x 2m with 178mm diameter depth 60 meter depth of perforated or slotted casing 6 meter
	Budgetary allocation (Capital cost) :	Rs. 3,00,000 /-
	Budgetary allocation (O & M cost) :	Rs. 20,000 /-
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 349 KLD Flushing tank Capacity(cum) : 182 KLD Fire UG tank Capacity (cum) : 300 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	9.63 m3/min
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	214.08 KLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	320 KLD
	Location & area of the STP:	Area : 200 sq. m
	Budgetary allocation (Capital cost):	Rs. 22,50,000 /-
	Budgetary allocation (O & M cost):	Rs. 2,64,000 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Will be used within site premises
Waste generation in the operation Phase:	**Dry waste:**	517 kg/day
	Wet waste:	775.5 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	28.26 kg/day
	Others if any:	E-waste : 3.54 kg/day

Mode of Disposal of waste:	**Dry waste:**	To authorized vendor
	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 : Will be handed over to authorized vendor
Area requirement:	**Location(s):**	Shown in plan
	Area for the storage of waste & other material:	84 sq. m
	Area for machinery:	Considered in above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 17,66,464 /-
	O & M cost:	Rs. 5,78,400 /-

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 are required (10 %) : 1096.91 sq. m
	No of trees to be cut :	0
	Number of trees to be planted :	138 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	Azadiracta indica	Neem	19	A medium to large size hardy tree that stand in drought conditions. Attain a much larger size in dry regions.
2	Ficus benghalensis	baniyan tree	02	Large, evergreen shady tree
3	Spathodia campanulata	Pitchkari	09	A handsome large deciduous flowering tree. Good for roadside plantation.
4	Mimosops elengii	Bakul	10	Medium sized evergreen shady tree .Good for roadside planting.
5	Lagerstromia flos-regineae	Taman	10	State flower tree of Maharashtra Medium sized tree with purple flowers, grows well in both dry and humid area
6	Jacaranda mimosifolia	Jacaranda	05	Medium size gracious deciduous, flowering tree which prefers moderate climate.
7	Putranjiva roxburghii	Putranjiva	15	Shady tree with red-yellow flowers
8	Mangifera indica	Mango	14	Large fruit tree
9	Butea monosperma	Palas	16	Small Deciduous. Good for roadside plantation.
10	Psidium guajava	Gauva	10	Fruit Tree
11	Manilkara zapota	Chiku	05	Small hardy tree.
12	Albizia lebbeck	Shirish	15	Shady, large tree, ball shaped flowers
13	Michelia champaca	Sonchafa	07	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	35 KW
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	1700.68 KW, 2125.86 KVA
	During Operation phase (Demand load):	1007.01 KW , 1258.77 KVA
	Transformer:	2 x 630 KVA
	DG set as Power back-up during operation phase:	140 KVA & 30 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. As per MSEDCL requirements, we will use high efficiency Transformer i.e. Level II as per BIS 1180. Losses for Transformer at 50% loading & 100% loading will be as per BIS standards & ECBC norms.
2. We are planning to keep power factor of the common load installation near unity.
3. Following are the Energy efficient fixtures should be used in our project for energy conservation :-
3.1 Energy efficient LED fixtures are proposed for parking area of all buildings.
3.2 LED lighting fixtures are proposed for general lighting for common passages, staircase & terrace area.
3.3 The estimated saving in common area lighting consumption is up to 19.92% due to adopting above measures.
4. Solar Heating System is being proposed for Hot water to be used in toilet of each apartment.
5. V3F drive motors should be used for lifts, which saves 30% energy consumption.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED fixtures, solar hot water & solar PVA panels	19.92 %

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.72,32,750/-
	O & M cost:	Rs. 1,32,685/-

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	1 STP	Rs. 22,50,000 /-	Rs. 2,64,400 /-
2	Rain Water Harvesting	04 pits	Rs. 3,00,000 /-	Rs. 20,000 /-
3	Solid Waste Management	1 OWC	Rs. 17,66,464 /-	Rs. 5,78,400 /-
4	Green Belt Development	138 trees	Rs. 17,71,070 /-	Rs. 1,27,517 /-
5	Energy details	LED fixtures, Solar hot water + Solar pV	Rs.72,32,750/-	Rs. 1,32,685/-
6	Environmental Monitoring	MoEFCC approved laboratory	-	Rs. 1,20,000 /-

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:	12 m & 18 m wide road

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	7788.10 sq. m as per Dc rule
	Area per car:	12.5 as per DC rule
	Area per car:	12.5 as per DC rule
	Number of 2-Wheelers as approved by competent authority:	Scooters – 1034 , Cycles -1034
	Number of 4-Wheelers as approved by competent authority:	259
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 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 for total plot area of 12000 m2, FSI area of 21943.23 m2, Non FSI area of 19940.99 m2 and total BUA of 41884.29 m2.

The building configuration of the proposal is as below:

1	Building A	Parking +12 floors	Height 36 m
2	Building B	Parking +12 floors	Height 36 m
3	Building C	Parking +12 floors	Height 36 m
4	Building D	Parking +12 floors	Height 36 m
5	Building E	Parking +06 floors	Height 18 m
6	Club house	G + 1	Height 7.20 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. PP to submit undertaking for meeting all norms related to STP treated water and compost produced using OWC.

2. PP to submit details of sustainable water supply.

*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

102 SEAC-3 meeting day 03

SEAC Meeting number: 102 **Meeting Date** January 24, 2020

Subject: Environment Clearance for Environment Clearance of residential & Commercial project

Is a Violation Case: No

1.Name of Project	Residential & Commercial Project
2.Type of institution	Private
3.Name of Project Proponent	M/s. Cavalcade Properties Pvt. Ltd.
4.Name of Consultant	Sneha Hi-Tech products
5.Type of project	Housing 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	Not applicable
8.Location of the project	S. No. 42 (parts)
9.Taluka	Haveli
10.Village	Mohammadwadi
Correspondence Name:	Mr. Anil Mathur/ M/s. Cavalcade Properties Pvt. Ltd.
Room Number:	-
Floor:	-
Building Name:	Site Office
Road/Street Name:	Near Cloud 9 Society NIBM Road
Locality:	Mohammadwadi
City:	Pune
11.Whether in Corporation / Municipal / other area	Project falls under Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Building plan is yet to approved by Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: Building plan is yet to approved by Pune Municipal Corporation
	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.)	26865.96 m2
16.Deductions	3577.67 m2
17.Net Plot area	23288.29m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 63421.54 m2
	b) Non FSI area (sq. m.): 48234.39 m2
	c) Total BUA area (sq. m.): 111655.93
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.): -
	Date of Approval: 15-01-2020
19.Total ground coverage (m2)	2742.40 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	10.43%
21.Estimated cost of the project	2440000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A 1	1B +2P+2 Podium+26 floors	93.64
2	Building A 2	1B +2P+2 Podium+26 floors	93.64
3	Building A 3	1B +2P+2 Podium+26 floors	93.64
4	Building A 4	1B +2P+2 Podium+26floors	93.64
5	Building A 5	1B +2P+2 Podium+26 floors	93.64
6	Building B	B+G+3Podium+ 09 floors	38.99
7	Club House	G+ 1 floor	9.00

23.Number of tenants and shops	Tenements: 851 nos. Commercial area: 237.23m2 Shops – 10 nos
24.Number of expected residents / users	Residential- 4255 Commercial- 80 Floating- 700, Total User : 5035
25.Tenant density per hectare	250/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)	24 m and 30 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation/Recycled
	Fresh water (CMD):	395 m3/day
	Recycled water - Flushing (CMD):	191 m3/day
	Recycled water - Gardening (CMD):	47 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	633 m3/day
	Fire fighting - Underground water tank(CMD):	375 m3
	Fire fighting - Overhead water tank(CMD):	As per Fire NOC
	Excess treated water	235 m3/day
Wet season:	**Source of water**	Pune Municipal Corporation/Recycled
	Fresh water (CMD):	395 m3/day
	Recycled water - Flushing (CMD):	191 m3/day
	Recycled water - Gardening (CMD):	24 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	609 m3/day
	Fire fighting - Underground water tank(CMD):	375 m3
	Fire fighting - Overhead water tank(CMD):	As per Fire NOC
	Excess treated water	259 m3/day
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	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:**	From 24 to 28M (as per Geological investigation report)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	11 Dry Bores & 6 recharge Pits
	Size of recharge pits :	Recharge Pit- 2.50 x 2.50 x 2.40 M Dry Bore – 1.80 x 2.40 x 30 M
	Budgetary allocation (Capital cost) :	Rs. 123.00 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 10.00 Lakhs /annum
	Details of UGT tanks if any :	For A Buildings: Recycle Water: 43m3 Fire-fighting: 300 m3 Drinking Water Storage: 200 M3/Day Domestic Water Storage: 370 M3/Day For B Buildings: Recycle Water: 10 m3 Fire-fighting: 75 M3/Day Drinking Water Storage: 179 m3 Domestic Water Storage: 331 m3
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	47.75 m3/hr.
	Size of SWD:	The pipe diameter proposed within the premises is 300 mm to 600mm. The open Channel crossing the plot is having width 2.00 M.
Sewage and Waste water	**Sewage generation in KLD:**	498 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	STP- 1 for A Building : 440M3/Day & STP-2 for B Building : 70M3/Day
	Location & area of the STP:	Location: On Ground in decentralized manner. Area : 350.00 Sq. M.
	Budgetary allocation (Capital cost):	Rs. 195.00 Lakhs
	Budgetary allocation (O & M cost):	Rs. 25.00 Lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated soil, construction concrete, cement bags, CLC blocks, bricks, broken tiles, Scarp metals etc. will be generated
	Disposal of the construction waste debris:	Construction debris will be used for backfilling, site leveling, internal road preparation. Top soil will be used for landscaping. Maximum construction waste will be reused on site and remaining will be handed over to authorized vendor.
Waste generation in the operation Phase:	**Dry waste:**	1030 kg/day
	Wet waste:	1300 kg/day
	Hazardous waste:	Small quantity of DG set used oil, paints etc.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	35 kg/day
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorized vendor
	Wet waste:	Will be treated in Smart Mechanical composting Machine
	Hazardous waste:	Handed over to authorized Vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried and used as manure for gardening
	Others if any:	-
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	(20 Sq. M.- Storage) Storage Area – 16 (OWC-1) + 15 (OWC -2) = 31 Sq. M.
	Area for machinery:	Area for the storage of waste & other material Area for machinery- 120 m2 (100 Sq. M. for machinery) Machine Area – 48 Sq. M. (OWC-1) + 45 Sq. M. (OWC-2) = 93 sq. M.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 41.50 Lakhs
	O & M cost:	Rs. 9.38 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable
41.Source of Fuel		Not applicable		

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	2,328.83 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	292
	List of proposed native trees :	Given below
	Timeline for completion of plantation :	Before completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta Indica	Neem	21	-Fragrant flowers or leaves, Attracts -Birds/ Butterflies/Bees, -deepgreen, Shiny foliage
2	Cassia Fistula	Bahava	19	Auspicious -attracts birds/bees/butterfiles -hanging or weeping growth
3	Neolamarckia Cadamba	Kadamb	10	Fragrant flowers or leaves -attracts butterflies/bees -quick groving/creates shade
4	Pongamia Pinnata	Indian beech tree	6	Fragrant flowers or leaves -attracts birds/butterflies/bees -drought tolerant
5	Lagerstromia Speciosa	Taman	11	-Creates shade -attracts birds/butterflies/bees -good for screening
6	Michelia Champaka	Pivala chafa	13	-Fragrant flowers or leaves -attracts birds/butterflies/bees -evergreen tree
7	Bauhinia Purpurea	Rakt kanchan	17	Fragrant flowers or leaves -plant for pooja -evergreen tree
8	Melia Azedarach	Persian lilac	17	-Fragrant flowers or leaves -attracts birds/butterflies/bees -medicinal uses
9	Artocarpus Heterophyllus	Jack fruit	19	Fruit bearing -evergreen -commercial value
10	Aegle Marmelos	Bel	11	-Fruit plant/medicinal plant -fragrant flowers or leaves -plant for puja or prayer flower or leaves
11	Syzygium Cumini	Jamun	24	-Fruit plant -fragrant flowers or leaves -attracts birds/butterflies/bees
12	Mangifera Indica	Mango	13	Fruit plant -fragrant flowers or leaves -attracts birds/butterflies/bees
13	Butea Monosperma	Palas	14	Fragrant flowers or leaves -flowers covering the entire crown -plant for pooja
14	Putranjiva Roxburghii	Putranjiva	07	Medicinal tree -moderate sized evergreen -pendant branches

15	Terminalia Arjuna	Arjun	09	Medicinal tree -large sized evergreen -spreading crown and drooping branches
16	Senna Siamea	Kassod	12	Quick growing trees -attracts birds/butterflies/bees -evergreen tree
17	Toona Ciliata	Indian Mahogany	11	-Evergreen tree -attracts birds/butterflies/bees -quick growing tree
18	Albizia Lebbeck	Shirish	13	-Fragrant flowers or leaves -attracts birds/butterflies/bees -drought tolerant
19	Manilkara Zapota	Chikoo	11	Fruit plant -fragrant flowers or leaves -attracts birds/butterflies/bees
20	Teminalia Catappa	Badam	10	Quick growing tree -creates shade -attracts birds/bees
21	Mimusops Elengi	Bakul	09	-Fragrant flowers or leaves -attracts birds/bees -evergreen tree/creates shade
22	Bauhinia Racemosa	Apta	15	-Moderate sized deciduous tree -plant for puja or prayer flower or leaves
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	Tulas	0.30	7
2	Acalypha goderej	0.30	9.25
3	Plumbago Capensis	0.45	24.50
4	Ratrani	0.45	22.00
5	Tecoma Gaudichaudi	0.45	25.60
6	Shambhukas Nigra	0.45	37.40
7	Cassia Glauca	0.45	12.00
8	Thivetia	0.45	26.00
9	Sontakka	0.30	15.00
10	Hamelia Dwarf	0.30	33.00
11	Hibiscus Red	0.45	18.00
12	Myna Erecta	0.45	12.00
13	Spider Lily	0.30	20.00
14	Galphimia	0.45	10.00
15	Wedellia	0.23	15.00
16	Mogra	0.45	18.00
17	Oliender Pink	0.45	13.25
18	Lantana Depressa	0.35	25.00
19	Kamini	0.45	10.50
20	Tagar variegated	0.35	21.50
21	Kunda	0.30	10.00
22	Aboli	0.35	20.00

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	1 no. x 125 KVA
	During Operation phase (Connected load):	5181 KW
	During Operation phase (Demand load):	3045KVA
	Transformer:	05 nos. x 630 KVA
	DG set as Power back-up during operation phase:	3 No's of 250 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy saving by non-conventional method
- Common area lighting in Lift lobbies, Parking, Passage & Street light with LED lamp.
- 1% Of Solar PV generation on total Connected load.
- Timer switches are proposed for common area lighting.
- High Efficiency transformers as per MSEDCL requirements

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Percentage of saving by Energy saving	Percentage of saving by Energy saving

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 49 Lakhs
	O & M cost:	Rs. 2.5 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	To control air pollution	2
2	Site Sanitation, Disinfection& Safety	To maintain hygienic condition	1.5

3	Environmental Monitoring	Air, water, noise and soil analysis	2
4	Health Check up	To check fitness of workers	2.5
5	Environment Management Cell	To manage environmental issues	8

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	To harvest rain water	123.00	10.00
2	Sewage Treatment Plant	To treat sewage	195.00	25.00
3	Smart Mechanical CoMposting	To treat biodegradable solid waste	41.50	9.71
4	Green Belt Development	Tree plantation	53.55	5.50
5	Energy saving	energy saving	49	2.50
6	Environment Monitoring	Air, water, noise and soil analysis	-	3
7	Laying of Storm line up to final disposal point	For proper storm water disposal	Included in the above	-
8	Laying of Sewer line up to final disposal point	For proper disposal of sewage	Included in the above	-
9	Environment Management Cell	To manage environmental issues	-	7.8

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:	Site is connected to 24 m & 30 M wide DP road at two different locations.

Parking details:	**Number and area of basement:**	No.ofbasement:01ineachbuildingAreaofbasementBldgA:3666.92m2 & Bldg B:468.30m2
	Number and area of podia:	No.ofPodium:02inAbuilding(A1toA5) TotalAreaofpodium:5215.00m2
	Total Parking area:	A building- 19199.63 Sq.m. B Building- 3675.00 Sq.m.
	Area per car:	A Building: Basement 1 – 26.00Sq.m, Podium1-33.64Sq.m., LowerGround-25.17 Sq.m.Upperground-26.40Sq.m., B Building: Basement 1 – 31.22 Sq.m Ground-40.80Sq.m. Parking Lvl1to 3-36.00Sq.m
	Area per car:	A Building: Basement 1 – 26.00Sq.m, Podium1-33.64Sq.m., LowerGround-25.17 Sq.m.Upperground-26.40Sq.m., B Building: Basement 1 – 31.22 Sq.m Ground-40.80Sq.m. Parking Lvl1to 3-36.00Sq.m
	Number of 2-Wheelers as approved by competent authority:	Scooters required: 1809 Provided: 1809
	Number of 4-Wheelers as approved by competent authority:	Cars required: 859 Provided: 859
	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 category
	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 for total plot area of 26865.96 m2, FSI area of 63421.54 m2, Non FSI area of 48234.39 m2 and total BUA of 111655.93 m2.

The building configuration of the proposal is as below:

1	Building A 1	1B +2P+2 Podium+26 floors	Height 93.64 m
2	Building A 2	1B +2P+2 Podium+26 floors	Height 93.64 m
3	Building A 3	1B +2P+2 Podium+26 floors	Height 93.64 m
4	Building A 4	1B +2P+2 Podium+26 floors	Height 93.64 m
5	Building A 5	1B +2P+2 Podium+26 floors	Height 93.64 m
6	Building B	B+G+3Podium+ 09 floors	Height 38.99 m
7	Club House	G+ 1 floor	Height 9.00 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 97th 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

102 SEAC-3 meeting day 03

SEAC Meeting number: 102 **Meeting Date** January 24, 2020

Subject: Environment Clearance for Environment Clearance for Proposed Commercial project at S. No. 9/3 ,9/4 , 9/5(P), 9/6(P), 9/7(P) Baner, Tal-Haveli, Dist-Pune by M/s AC Realty Market LLP & Baner Land Developers LLP and Ashok Dhanraj Chordia.

Is a Violation Case: No

1.Name of Project	Environment Clearance for Proposed Proposed Commercial project at S. No. 9/3 ,9/4 , 9/5(P), 9/6(P), 9/7(P) Baner, Tal-Haveli, Dist-Pune by M/s AC Realty Market LLP & Baner Land Developers LLP and Ashok Dhanraj Chordia.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Ashok Dhanraj Chordia & Mr. Atul Ashok Chordia
4.Name of Consultant	VK:e Environmental LLP , Pune
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	S. No. 9/3 ,9/4 , 9/5(P), 9/6(P), 9/7(P)
9.Taluka	Haveli
10.Village	Baner
Correspondence Name:	Mr. Vilas Tambe
Room Number:	-
Floor:	-
Building Name:	Solitaire World, Level - 8, S.No.36/1/1, Opp Regency Classic, Pune - 411045
Road/Street Name:	Mumbai - Bangalore Highway
Locality:	Baner
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: 00
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.)	12021.42 m2
16.Deductions	2836.05 m2
17.Net Plot area	9185.37 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 35424.70
	b) Non FSI area (sq. m.): 44471.21
	c) Total BUA area (sq. m.): 79895.91
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: 15-05-2019
19.Total ground coverage (m2)	2168.73
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.61
21.Estimated cost of the project	1600000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building	2B+G+5P+21	92.25

23.Number of tenants and shops	Commercial- 910 no of offices
24.Number of expected residents / users	Commercial- 5904 nos
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 m wide road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	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):	148
	Recycled water - Flushing (CMD):	118
	Recycled water - Gardening (CMD):	08
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	274
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	89
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	148
	Recycled water - Flushing (CMD):	118
	Recycled water - Gardening (CMD):	08
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	266
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	97
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post monsoon 4.0 meter Pre monsoon 8.00 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	3 No. of recharge pits
	Size of recharge pits :	Pit 2*2*2meter Bore well 0.180 meter diameter and 60 meter depth silting chamber 1*1*1
	Budgetary allocation (Capital cost) :	2,00,000/-
	Budgetary allocation (O & M cost) :	Rs. 15,000/- per year
	Details of UGT tanks if any :	Domestic UG tank Capacity: 222CMD Flushing UG tank Capacity: 178 CMD Fire UG tank Capacity 200 CMD
35.Storm water drainage	**Natural water drainage pattern:**	The storm water drainage will be designed according to contours
	Quantity of storm water:	6.52 m3/min
	Size of SWD:	450mm
Sewage and Waste water	**Sewage generation in KLD:**	239
	STP technology:	MBBR
	Capacity of STP (CMD):	1no. of STP – 240 kld
	Location & area of the STP:	On ground, Total Area is 120 Sq.mt.
	Budgetary allocation (Capital cost):	7193000
	Budgetary allocation (O & M cost):	1056000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	20 kg/day (Wet waste 12 kg/day +Dry waste- 8 kg/day)
	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:**	886 kg/day
	Wet waste:	590 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	19.80 kg/day
	Others if any:	E-waste- 16.17 kg/day

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 machine.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	Handed over to authorized recyclers for further handling & disposal purpose
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	Included in Total area
	Area for machinery:	Total area-48 sqm.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1475000
	O & M cost:	358080

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 -919.81 sq. mt.
	No of trees to be cut :	Few trees present on site out of which some will be cut and protected
	Number of trees to be planted :	465
	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	35	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	37	A columnar, evergreen tree, grows well both dry and moist regions.
3	Lagerstromia flos-regineae	Tamhan	28	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers, grows well in both dry and humid climate.
4	Pongamia pinnata	Karanj	21	Large tree good for stopping soil erosion along canal banks
5	Azadirachta indica	Neem	34	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	36	Small deciduous tree. Excellent bright flowering tree for arid regions.
7	Ficus benjamina	Weeping fig	28	Medium sized evergreen tree with elegant appearance and moderate water requirement.
8	Plumeria alba	Champa	20	Ornamental flowering tree.
9	Michelia champaca	Sonchapha	28	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant.
10	Polyathia longifolia	Ashoka	46	Large evergreen tree. Effective in decreasing noise pollution
11	Mangifera indica	Mango	47	Large evergreen and fruit bearing tree
12	Albizia lebeck	Shirish	27	Shady, large tree, ball shaped flowers
13	Psidium guajava	Guava, peru	37	Small hardy and birds attracting tree.
14	Annona squasoma	Sitaphal	41	Medium size fruite 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)	22.2 KW
	DG set as Power back-up during construction phase	1 X 30 KVA
	During Operation phase (Connected load):	5540.00 KW
	During Operation phase (Demand load):	4084.00 kvA
	Transformer:	6 nos. X 630 KVA, 1 nos X 315 KVA
	DG set as Power back-up during operation phase:	1 X 500 kvA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving by using energy saving measures-	3.00 %

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:**	4800000
	O & M cost:	240000

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	8.77
2	Land	Labour Camp toilets & sanitation	4.8
3	Health and Safety	Personal Protective Equipment	4.0
4	Health and Safety	Health checkup & Disinfection	0.51
5	Environment Management	Environment management cell	1.75
6	Environmental Monitoring	Environmental Monitoring	3.26

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	71.93	10.56
2	Solid Waste Management	OWC	14.75	3.58
3	Landscaping	Development and Maintenance	3.48	0.27
4	Rain Water Harvesting	Recharge Pits	2.00	0.15
5	Renewable energy	Renewable energy	48.00	2.40
6	Lightening arrestor	Lightening arrestor	1.4	-
7	Environmental Monitoring	Environmental Monitoring	-	1.82

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
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 Baner The road network within the site has been designed to cater to the traffic loads of the project

Parking details:	**Number and area of basement:**	2 Basements
	Number and area of podia:	1 no.
	Total Parking area:	29179.23 sqm.
	Area per car:	12.5 sqm
	Area per car:	12.5 sqm
	Number of 2-Wheelers as approved by competent authority:	3188
	Number of 4-Wheelers as approved by competent authority:	1063
	Public Transport:	NA
	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	8a
	Court cases pending if any	NA
	Other Relevant Informations	Proposed project is commercial project located at Baner
	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 12021.42 m2, FSI area of 35425 m2, Non FSI area of 44471.21 m2 and total BUA of 79895.91 m2.

The building configuration of the proposal is as below:

1 Building 2B+G+4P+21 Height 92.25m

The proposal was previously considered in 94th SEAC-3 meeting and certain compliance was raised. However, PP has now revised the proposal by increasing one parking floor and number of floors from 14 to 21.

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 is proposed in basement and the structural columns of the building are located within the alignment of the UGT. PP to submit details of the treatment measures proposed for protecting the columns.

2. PP to submit basement approval plan.

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

*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: 102 **Meeting Date** January 24, 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 for total plot area of 85600 m2, FSI area of 198080.09 m2, Non FSI area of 217966.73 m2 and total BUA of 416046.82 m2.

The building configuration of the proposal is as below:

1	Tower 1	3P+ 27 floors	Height 99.50 m
2	Tower 2	3P+ 24 floors	Height 90.50 m
3	Tower 3	4P+ 27floors	Height 99.5 m
4	Tower 4	3P+ 24 floors	Height 90.50 m
5	Tower 5	2P+ 25 floors	Height 93.50 m
6	Tower 6	3P+ 27 floors	Height 99.50 m
7	Tower 7	2P+ 24 floors	Height 90.50 m
8	Tower 8	2P+ 17 floors	Height 69.50 m
9	Office block 1	2P+4 Retails floors+12 floors	Height 61.10 m
10	Office block 2	2P+4 Retails floors+6 floors	Height 43.10 m
11	Office block 3	3B+2P+2 Retail floor+12 floors	Height 61.10 m

PP was issued Terms of Reference in 95th 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). PP has submitted EIA report accordingly.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit details regarding AC system proposed for hotel and entire mall along with details of water budget and source of water.

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

3. In case of air quality modelling for operational phase PM10 and PM2.5 values are exceeding for station AAQ1 (106.7 ug/m3 and 71.10 ug/m3 respectively). PP to submit the details of modelling assumptions / scenario considered. Also submit specific mitigation measures so as to avoid exceedance of PM10 and PM2.5.

4. Background noise levels at all locations NL1 to NL7 are repeated much higher than the prescribed limit of daytime and night time both (in range of 67 dBA to 74dBA and 50,2 dBA to 57.4 dBA respectively). PP to provide specific mitigation measures to protect residents from high noise levels.

5. PP to submit Ecological footprint calculation using LCA approach and Carbon footprint of the project and details of calculations for operational phase. PP to submit 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.

6. PP to submit co-ordinated master layout superimposing all environmental parameters.

7. PP to obtain and submit following NOC's: (a) CFO NOC, (b) Water supply with quantity, (c) Drainage NOC. (d) Aviation Authority NOC. (e) Tree cutting NOC. (f) 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.

102 SEAC-3 meeting day 03

SEAC Meeting number: 102 **Meeting Date** January 24, 2020

Subject: Environment Clearance for Expansion of Building Construction Project

Is a Violation Case: No

1.Name of Project	"Kalpataru Estate"
2.Type of institution	Private
3.Name of Project Proponent	M/s. Kalpataru Constructions (Pune)
4.Name of Consultant	M/s. ABC Techno Labs India Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Environment Clearance obtained dated 02/01/2007
8.Location of the project	S. No.:- 85/1A/1, 85/1B/2/1, 91/1A, 90/2/1, 86/2B/1
9.Taluka	Haveli
10.Village	Pimple Gurav
Correspondence Name:	M/s. Kalpataru Constructions (Pune)
Room Number:	603
Floor:	6th Floor
Building Name:	Mayfair Tower I
Road/Street Name:	Old Mumbai – Pune Road
Locality:	Wakadewadi, Shivajinagar
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Yes
	IOD/IOA/Concession/Plan Approval Number: B.P./Layout/ENV/P.Gurav/1/2017 dated 20/12/2017
	Approved Built-up Area: 144512.46
13.Note on the initiated work (If applicable)	Existing: Phase 1 Residential Building (1A, 1B, 2A, 2B, 3A, 3B & 3 Shops)- Completed ,Phase 2 Residential Building (4A, 4B, 4C, 4D, 5A, 5B, 5C, 6A, 6B, 6C)- Completed, Phase 3 Residential Building (7A, 7B, 7C, 9A, 9B)- Completed, Residential Building 8A, 8B, 8C (Partly completed), Existing Total Area: 1,29,653.43 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	84,800.00 Sqm
16.Deductions	39,485.50 Sqm
17.Net Plot area	45,314.50 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 78,690.64 Sqm
	b) Non FSI area (sq. m.): 65,821.82 Sqm
	c) Total BUA area (sq. m.): 144512.46
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	10897.78
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19%
21.Estimated cost of the project	2474345901

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Existing Phase I:	-	-
2	1 A	P + 7 Floors	20.30
3	1 B	P + 7 Floors	20.30
4	2 A	P + 7 Floors	20.30
5	2 B	P + 7 Floors	20.30
6	3 A	P + 7 Floors	20.30
7	3 B	P + 7 Floors	20.30
8	Shops	3 No	4.80
9	Existing Phase II:	-	-
10	4 A	P + 12 Floors	34.80
11	4 B	P + 12 Floors	34.80
12	4 C	2P + 12 Floors	34.80
13	4 D	2P + 12 Floors	34.80
14	5 A	2P + 12 Floors	34.80
15	5 B	2P + 12 Floors	34.80
16	5 C	2P + 12 Floors	34.80
17	6 A	P + 12 Floors	34.80
18	6 B	P + 12 Floors	34.80
19	6 C	P + 12 Floors	34.80
20	Existing Phase III:	-	-
21	7 A	P + 12 Floors	34.80
22	7 B	P + 12 Floors	34.80
23	7 C	P + 11 Floors	31.90
24	7 D	P + 11 Floors	31.90
25	9 A	P + 9 Floors	26.10
26	9 B	P + 12 Floors	34.80
27	Proposed Phase III:	-	-
28	8 A	P + 12 Floors	35.40
29	8 B	P + 12 Floors	35.40
30	8 C	P + 12 Floors	35.40

23.Number of tenants and shops	Existing: 897 Nos. & 3 Shops Proposed: 69 Nos. Total: 966 Tenements & 3 Shops
24.Number of expected residents / users	Existing: 4485 Nos. Proposed: 345 Nos. Commercial (Shops) : 21 Total -4851
25.Tenant density per hectare	213.24
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	45 M wide D.P. road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Existing: Phase 1 Residential Building (1A, 1B, 2A, 2B, 3A, 3B & 3 Shops)- Completed, Phase 2 Residential Building (4A, 4B, 4C, 4D, 5A, 5B, 5C, 6A, 6B, 6C)- Completed, Phase 3 Residential Building (7A, 7B, 7C, 9A, 9B)- Completed, Residential Building 8A, 8B, 8C (Partly completed) Existing Total Area: 1,29,653.43 m2
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):	449.504
	Recycled water - Flushing (CMD):	225.072
	Recycled water - Gardening (CMD):	27.271
	Swimming pool make up (Cum):	11.6
	Total Water Requirement (CMD) :	701.847
	Fire fighting - Underground water tank(CMD):	800
	Fire fighting - Overhead water tank(CMD):	380
	Excess treated water	278.036

Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	449.504
	Recycled water - Flushing (CMD):	225.072
	Recycled water - Gardening (CMD):	Not Applicable
	Swimming pool make up (Cum):	11.6
	Total Water Requirement (CMD) :	674.576
	Fire fighting - Underground water tank(CMD):	800
	Fire fighting - Overhead water tank(CMD):	380
	Excess treated water	305.307
Details of Swimming pool (If any)	Dimension of Swimming Pool: – Main Pool: 25m X 11.5m X 1.2m depth Kids Pool: 8.7m X 7.5m X 0.45m depth Total water Requirement: 374 Cum Water requirement for make-up: 11.6 m3/day Budgetary allocation (Capital cost and O & M cost) Capital Cost: Rs. 77,00,000/- O & M Cost: Rs. 1,50,000/- per annum	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	418.454	31.050	449.504	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Domestic	628.001	46.575	674.576	83.691	6.21	89.901	544.310	40.365	584.675
Gardening	24.543	2.728	27.271	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon: 11-18 m BGL, Post Monsoon:1.2-2.9 m BGL
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	17 No. Provided
	Size of recharge pits :	6m x 4m x 2.5m
	Budgetary allocation (Capital cost) :	Rs. 59,50,000/-
	Budgetary allocation (O & M cost) :	Rs. 1,02,000/- per annum
	Details of UGT tanks if any :	Domestic: 1099.292 KLD Flushing: 549.966 KLD Fire: 800 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	122.50 m3/hr
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	Existing: 544.310, Proposed: 40.365, Total: 584.675 KLD
	STP technology:	Extended Aeration System
	Capacity of STP (CMD):	1 No. 750 KLD Provided
	Location & area of the STP:	As shown in layout plan
	Budgetary allocation (Capital cost):	Rs.1,25,11,000/-
	Budgetary allocation (O & M cost):	Rs. 8,00,000/- per Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	12720 CUM
	Disposal of the construction waste debris:	Use for Land Leveling
Waste generation in the operation Phase:	**Dry waste:**	969.15 kg/day
	Wet waste:	1451.1 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	35.08 kg/day
	Others if any:	E Waste: 2430 Kg/year

Mode of Disposal of waste:	**Dry waste:**	Through SWACH agency
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	E-waste - Handed over to authorized dealer
Area requirement:	**Location(s):**	Refer Master Layout
	Area for the storage of waste & other material:	190.00 m2
	Area for machinery:	Included
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 44,50,000/-
	O & M cost:	Rs. 11,05,046/- per annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	BOD	Mg/l	215	10	30
2	COD	Mg/l	680	32.26	250
3	Coliforms	Cfu/ml	<2	<2	-
4	E. Coli	Cfu/ml	Absent	Absent	-

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	Type of Fuel: HSD Existing: For 125 KVA X 1 No.: 15 Lit/hr For 200 KVA X 2 No.: 44 Lit/hr For 250 KVA X 1 No.: 30 Lit/hr Proposed: 200 KVA X 1 No: 42.5 Lit/Hr at 100% loading	5 No.	6.23	125 mm	300 Degree Celsius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	For 125 KVA X 1 No.: 15 Lit/hr For 200 KVA X 2 No.: 44 Lit/hr For 250 KVA X 1 No.: 30 Lit/hr	For 200 KVA X 1 No: 42.5 litre/Hour @ 100% Loading	131.5 litre/Hour
41.Source of Fuel		Nearby pump		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	5678.65 Sqm
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	626 No.
	List of proposed native trees :	As shown below
	Timeline for completion of plantation :	At the time of completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Michelia champaka	Son Chafa	10	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
2	Azadirachta indica	Neem	36	Medicinal value. To control soil erosion. Pest and disease control
3	Spathodea campanulata	African Tulip Tree	43	Evergreen , flowering, medicinal and timber products
4	Tabebuia rosea	Pink Trumpet tree	54	Flowering, Medicinal use
5	Alstonia scholaris	Satvin	32	Evergreen , medicinal
6	Pongamia pinnata	Karanj	4	Medicinal, controls soil erosion
7	Ficus racemosa	Umber	3	Evergreen, Medicinal, Birds attracting, slope stabilization
8	Lagerstroemia indica	Pride of India	17	Native, attracts butterflies and bees
9	Cassia fistula	Bahava	22	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.

10	Mangifera indica	Mango / Amba	2	Fruit bearing, evergreen , medicinal, birds attracting
11	Moringa oleifera	Shevga / Drumstick	2	Fast growing, drought- resistant tree, medicinal properties
12	Plumeria rubra	Chafa	21	Medicinal value, Ornamental
13	Bauhinea blackena	Apta / Kanchanar	35	Every part of the plant is medicinal, Drought tolerant species.
14	Delonix regia	Gulmohar	1	Attracts bees and butterflies
15	Ficus religiosa	Pimpal	3	Religious, Evergreen, Medicinal
16	Plumeria alba	Chafa	20	Medicinal value, Ornamental
17	Bixa orenelle	Sendri	6	Industrial use, Medicinal use, Culinary use, attracts butterflies and bees
18	Peltophorum pterospernum	Copper pod	4	Evergreen, ornamental, timber products
19	Plumeria pudica	Khair Chafa	6	Ornamental, flowering, quick growing
20	Ficus benjamina	Weeping fig	1	Evergreen, birds attracting, fast growing
21	Bauhinea purpurea	Kanchan	29	Native, quick growing, flowering, attracts birds, butterflies, bees
22	Switenia mahogani	Mahagony	38	Timber products, Evergreen, medicinal uses, quick growing, attracts bees
23	Brassia actinophylla	Umbrella tree	3	Evergreen, Shade/ indoor tree, attracts birds
24	Putranjiva roxburgii	Putranjiva	12	Evergreen, Ornamental, medicinal, attracts birds
25	Callistemon lanceolatus	Bottle brush	9	Evergreen, attracts birds and butterflies, quick growing
26	Mimusops elengii	Bakul	10	Flowering tree, Fragrant flowers, attracts birds and bees, evergreen
27	Millingtonia hortensis	Indian cork tree	46	Evergreen, bird attracting tree, fast growing
28	Leucaena leucocephala	Subabul	3	Fast growing, evergreen
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)	45 KW
	DG set as Power back-up during construction phase	1 No X 63 KVA
	During Operation phase (Connected load):	Existing Buildings: 4838 KW, Proposed Buildings: 780.80 KW
	During Operation phase (Demand load):	Existing Buildings: 2757.8 KW, Proposed Buildings: 442.34 KW
	Transformer:	Existing Buildings: 630 KVA X 8 No. and 315 KVA X 2 No., Proposed Buildings: 630 KVA X 1 No.
	DG set as Power back-up during operation phase:	Existing Buildings: 125 KVA X 1 No., 200 KVA X 2 No. and 250 KVA X 1 No. Proposed Buildings: 200 KVA X 1 No
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Solar water heating system

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.	39.17%
2	Energy Saving using Automatic Timer operation Against Manual operation for External & Common Area Lighting	33.33%
3	Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T5 fixture with Electronic Ballast for Flat internal point.	48.72%
4	Energy Saving using Solar Water Heater Against Electrical water Heater	74.29%
5	Energy saving using Low Loss Transformer Against Conventional Transformer	5%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution by DG sets	Acoustic enclosure for DG set	Acoustic enclosure for DG set
Sewage Water	STP Provided	STP Provided

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 18,50,000/-
	O & M cost:	Rs. 1,90,000/- 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	Air Environment	Water for Dust Seperation	1.08
2	Air Environment	Air & Noise monitoring	0.2
3	Water Environment	Tanker water for construction	6.50
4	Water Environment	Water monitoring	0.5
5	Land Environment	Site Sanitation & saftey	2.5
6	Socio Economic Environment	Disinfection-Pest Control	0.9
7	Socio Economic Environment	Health Check up	0.8

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Waste Water Treatment	125.11	8.0
2	Rain Water Harvesting	17 No of recharging pits	59.50	1.02
3	Laying of storm water & Sewer line up to final disposal point	NA	106.95	0.25
4	Organic Waste Composting	Biodegradable solid waste treatment	44.50	11.05
5	Gardening	Landscape Development	231.20	23.12
6	Electrical	Energy Saving measures	18.5	1.90
7	Environmental Monitoring	Ambient Air Quality, Noise Level, Exhaust	-	1.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Traffic generated From this project is confluent on existing 45 m & 18 m wide DP Road & 12 m wide internal road
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	18890.48 sqm
	Area per car:	30 sqm including drive way
	Area per car:	30 sqm including drive way
	Number of 2-Wheelers as approved by competent authority:	Existing - 1818 No, Proposed - 138 No
	Number of 4-Wheelers as approved by competent authority:	Existing - 587 No, Proposed - 69 No
	Public Transport:	Nearest Bus Stop- Pimple Gurav
	Width of all Internal roads (m):	12m
	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	Not Applicable
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
Is a Violation Case:	"No"	"Yes"
4.Name of Consultant	M/s. ABC Techno Labs India Pvt. Ltd.	ULTRA TECH NABET Certificate No.: NABET/EIA/1720/ RA 0094, Valid till 10/03/2020

7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Environment Clearance obtained dated 02/01/2007	Yes. Environment Clearance was obtained vide letter no. 21-500/2006-IA.III dated 02/01/2007
Correspondence Name:	M/s. Kalpataru Constructions (Pune)	M/s. Kalpataru Constructions (Pune) and project proponent Mr. Jayant Oswal
13.Note on the initiated work (If applicable)	Existing: Phase 1 Residential Building (1A, 1B, 2A, 2B, 3A, 3B & 3 Shops)- Completed ,Phase 2 Residential Building (4A, 4B, 4C, 4D, 5A, 5B, 5C, 6A, 6B, 6C)- Completed, Phase 3 Residential Building (7A, 7B, 7C, 9A, 9B)- Completed, Residential Building 8A, 8B, 8C (Partly completed), Existing Total Area: 1,29,653.43 m2	Existing: Phase 1 Residential Building (1A, 1B, 2A, 2B, 3A, 3B & 3 Shops)- Completed ,Phase 2 Residential Building (4A, 4B, 4C, 4D, 5A, 5B, 5C, 6A, 6B, 6C)- Completed, Phase 3 Residential Building (7A, 7B, 7C, 9A, 9B) - Completed, Residential Building 8A, 8B, 8C (Partly completed), Existing Total Area: 1,32,029.68 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): 78,690.64 Sqm	FSI area (sq. m.): 76448.93
18 (a).Proposed Built-up Area (FSI & Non-FSI)	Non FSI area (sq. m.): 65,821.82	Non FSI area (sq. m.): 65821.82
18 (a).Proposed Built-up Area (FSI & Non-FSI)	Total BUA area (sq. m.): 144512.46	Total BUA area (sq. m.): 142270.75
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): -	Approved FSI area (sq. m.): 78,690.64
18 (b).Approved Built up area as per DCR	Approved Non FSI area (sq. m.): -	Approved Non FSI area (sq. m.): 65,821.82
18 (b).Approved Built up area as per DCR	Date of Approval: -	Date of Approval: 20.12.2017
19.Total ground coverage (m2)	10897.78	10578.60
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19%	18.5%
21.Estimated cost of the project	2474345901	Rs. 184,70,85,777.79
29.Existing structure (s) if any	Existing: Phase 1 Residential Building (1A, 1B, 2A, 2B, 3A, 3B & 3 Shops)- Completed ,Phase 2 Residential Building (4A, 4B, 4C, 4D, 5A, 5B, 5C, 6A, 6B, 6C)- Completed, Phase 3 Residential Building (7A, 7B, 7C, 9A, 9B)- Completed, Residential Building 8A, 8B, 8C (Partly completed), Existing Total Area: 1,29,653.43 m2	Existing: Phase 1 Residential Building (1A, 1B, 2A, 2B, 3A, 3B & 3 Shops)- Completed ,Phase 2 Residential Building (4A, 4B, 4C, 4D, 5A, 5B, 5C, 6A, 6B, 6C)- Completed, Phase 3 Residential Building (7A, 7B, 7C, 9A, 9B)- Completed, Residential Building 8A, 8B, 8C (Partly completed), Existing Total Area: 1,32,029.68 m2
36. Sewage and Waste water	Budgetary allocation (Capital cost): Rs.1,25,11,000/-	Budgetary allocation (Capital cost): Rs. 13,28,000/-
37. Solid waste Management	Waste generation in the Pre-Construction and Construction phase: Waste generation: 12720 CUM	Waste generation in the Pre-Construction and Construction phase - Waste generation: 56,285 CUM
45. Number and list of trees species to be planted in the ground	-	Name of the plant: Wodyetia bifurcata, Quantity - 91 Nos.
45. Number and list of trees species to be planted in the ground	-	Name of the plant: Areca catechu, Quantity - 48 Nos.
45. Number and list of trees species to be planted in the ground	-	Name of the plant: Roystonea reginae, Quantity - 15 Nos.

52. Environmental Management plan Budgetary Allocation	b) Operation Phase (with Break-up): 1. Sewage Treatment Plant : Capital cost Rs. In Lacs - 125.11	b) Operation Phase (with Break-up): 1. Sewage Treatment Plant : Capital cost Rs. In Lacs - 13.28

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 for total plot area of 84800 m2, FSI area of 78690.64 m2, Non FSI area of 65821.82 m2 and total BUA of 144512.46 m2.

The building configuration of the proposal is as below:

1	Existing Phase I: - -		
2	1 A	P + 7 Floors	Height 20.30 m
3	1 B	P + 7 Floors	Height 20.30 m
4	2 A	P + 7 Floors	Height 20.30 m
5	2 B	P + 7 Floors	Height 20.30 m
6	3 A	P + 7 Floors	Height 20.30 m
7	3 B	P + 7 Floors	Height 20.30 m
8	Shops	3 No	Height 4.80 m
9	Existing Phase II: - -		
10	4 A	P + 12 Floors	Height 34.80 m
11	4 B	P + 12 Floors	Height 34.80 m
12	4 C	2P + 12 Floors	Height 34.80 m
13	4 D	2P + 12 Floors	Height 34.80 m
14	5 A	2P + 12 Floors	Height 34.80 m
15	5 B	2P + 12 Floors	Height 34.80 m
16	5 C	2P + 12 Floors	Height 34.80 m
17	6 A	P + 12 Floors	Height 34.80 m
18	6 B	P + 12 Floors	Height 34.80 m
19	6 C	P + 12 Floors	Height 34.80 m
20	Existing Phase III: - -		
21	7 A	P + 12 Floors	Height 34.80 m
22	7 B	P + 12 Floors	Height 34.80 m
23	7 C	P + 11 Floors	Height 31.90 m
24	7 D	P + 11 Floors	Height 31.90 m
25	9 A	P + 9 Floors	Height 26.10 m
26	9 B	P + 12 Floors	Height 34.80 m
27	Proposed Phase III: - -		
28	8 A	P + 12 Floors	Height 35.40 m
29	8 B	P + 12 Floors	Height 35.40 m
30	8 C	P + 12 Floors	Height 35.40 m

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: 129653.43 m2.

The proposal was considered previously in 65th SEAC-3 meeting, 138th SEIAA meeting and 182nd SEIAA meeting. The minutes of 138th SEIAA meeting are as below:

"PP received previous EC from MoEF&CC vide no. 21-500/2006-IA.III dt.02.01.2007 for total built up area of 77672.68 m2. Now PP has applied for expansion for FSI-76448.93 m2, nonFSI-65821.82 m2 and TBUA- 142270.75 m2. Proposal was appraised by SEAC-3 in its 65th meeting as as category 8 (a) B2. (REVALIDATION) and referred to SEIAA.

Proposal was then considered by SEIAA in its 138th meeting. During the SEIAA meeting, PP claimed that the total built up area of 77672.68 m2 mentioned in the aforesaid previous EC was FSI area only. Authority in its 138th meeting noted that, no explicit mention of FSI area was mentioned in the EC. Hence, Authority asked PP to submit the true copies of Form-I, Form-IA and accompanying documents etc. submitted to MoEF for obtaining EC dt. 02.01.2007. Authority also asked Environment Department to seek clarification / guidance from MoEF&CC whether the total built up area of 77672.68 m2 mentioned in the EC issued by MoEF vide no. 21-500/2006-IA.III dt. 02.01.2007 is only FSI component or otherwise and hence proposal was deferred.

Proposal is now considered in its 182nd meeting and during deliberations authority stated that, as the MoEF guidelines regarding the built up area are clear and there is no need to seek clarification/ guidance from MoEF regarding the same. PP has obtained EC for Total BUA of 77672.68 m2 but constructed more than that. But as PP has applied on 31.03.2018 i.e. within the time limit set as per MoEF & CC Notification dated 14/03/2017 and 8/03/2018. Hence, SEIAA decided to refer back the proposal to SEAC-3 for consideration under MoEF & CC Notification dated 14/03/2017 and 8/03/2018."

The proposal is appraised as category 8(a) B2.

DECISION OF SEAC

After deliberation, Committee hereby accords approval to the following Terms of Reference for undertaking Environment Impact Assessment (EIA) and preparation of Environment Management Plan (EMP) for further discussion and consideration of SEAC:

Terms of Reference for EIA and preparation of Environment Management Plan (EMP) for Violation Cases

1. **Project Description**

1. Project description, its importance and the benefits.

2. Project site details (location, topo-sheet of the study area of 10 Km, Coordinates, google map, layout map, land use, geological features and geo-hydrological status of the study area, drainage). Hydro-geological survey report with graphs & data.

3. Land use as per the approved Master Plan of the area, Permission/approvals required from the land owning agencies, Development Authorities, Local Body, Water supply & Sewerage Board, etc.

4. Land acquisition status, R & R details.

5. Forest and Wildlife and eco-sensitive zones, if any in the study area of 10 km. Any sensitive areas in impact zone such as archaeological structures, reserved forest, noise sensitive zones etc. Clearances required under the Forest (Conservation) Act, 1980, the Wildlife (Protection) Act, 1972 and/or the Environment (Protection) Act, 1986.

6. (G) High Tension wires if any on the plot.

7. (G) Plan showing HFL.

8. (G) 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. (G) PP to submit the detailed master plan indicating already completed construction and proposed construction. PP to submit the certificate from architect for completed work

2. **Base Line Data**

10. (B) Baseline environmental study for ambient air (PM_{10}, $PM_{2.5}$, SO_2, NO_x & CO),water (both surface and ground), noise and soil for one month (except monsoon period) as per MoEF&CC/CPCB guidelines at minimum 5 locations in the study area of 10 km, The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory duly notified under the Environment (Protection) Act,1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.

11. (C) Detail on flora and fauna and socio-economic aspects in the study area. Details of tree cutting, tree transplantation and survival report of existing trees.

12. (C) Likely impact of the project on the environmental parameters (ambient air surface and ground water, land, flora and fauna and socio-economic, etc.)

13. (B) 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.

14. (G) Socio-economic infrastructure details including public transport arrangements on the site; PP to mention details of socio-economic in EIA.

15. (G) 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.

16. (C) PP to submit details of existing trees, proposed to be cut, proposed to be transplanted along with tree survival report

3. **Traffic Impact Study in detail including:**

17. (V) Traffic Management Plan for the development – Internal circulation indicating road width and turning radius. Cross section of roads at four places showing clear road width, distance left from building line, spaces left for plantation, footpath, service lines etc.

18. (V) Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project showing the time period taken.

19. (V) Topographic details of roads and intersection of the surrounding roads where counts are taken, actual geometry on ground to be shown with dimensions..

20. (V) Traffic generation values of similar development to be given by actual count by actual count as support data for assumption made to the particular project.

21. (V) Parking statement mentioning parking as per DCR & parking provided actually.

22. (V) Basement ventilation plan: Fire Tender Movement Plan showing clear road and turning radius. Cross section of roads at four places including UGT, OWC and DG set location showing clear road width and distance left from building line & spaces left for plantation, parking, service lines, foot paths, etc.

4. **Environmental Impact and Management Plan:**

23. (B) Identify sources of air pollution, indicate mitigation measures to reduce Air pollution/Noise pollution.

24. (G) 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.

25. (B) 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.

26. (B) 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

27. (J) PP to show internal storm water drain and sewer line arrangements up to final disposal point.

28. (C) Provision of mandatory RG area on virgin land and submit the drawing with calculations, ensuring entire mandatory RG is provided on the plot where residential buildings are proposed.

29. (G) A detailed phase wise development plan with safety planning where occupancy has been given.

30. (T) If any site specific structures such as creation of water body, alteration of natural storm water, large alteration of slopes, creation of green areas abutting to water bodies / natural storm water drain / river etc, is involved, detailed environmental protection approach for the same shall be provided.

31. (D) 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.

32. (D) 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

33. (B) Environmental status report including analysis reports of all environmental pollution reduction facilities if any commissioned.

34. (K) PP to submit Disaster management plan.

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

5. **Environmental Modelling and additional Studies:**

36. (B) Fugitive dust modelling by using local meteorological data.

37. (B) Ecological footprint calculation using LCA approach.

38. (B) Estimation of Carbon footprint of the project.

39. (B) 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.

40. (B) 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.

41. (K) Preparation of remediation plan and natural and community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.

6. **NOCs, Undertakings and CER:**

42. (T) NOC's required: a) CFO NOC, b)Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.

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

44. (K) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF&CC circular dt. 01.05.2018, along with details of fund utilization & agreement or consent of executor.

45. PP to refer "approach paper for assessment for environmental damage and estimation of remediation costs for building construction projects initiated with obtaining mandatory environmental clearance" available on the portal : "ecmpcb.in".

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Specific Conditions by SEAC:

FINAL RECOMMENDATION

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