Agenda of 90th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 90 **Meeting Date** February 27, 2019

Subject: Environment Clearance for Proposed redevelopment on SRA scheme

Is a Violation Case: No

1.Name of Project	Proposed Slum Rehabilitation Scheme on Plot bearing CTS No. 717(pt), 718(pt), 735, 736, 744(pt), 745(pt), 747(pt) & 748(pt), 751(pt), 752, 753, 754(pt), 795 of village Kandivali, Kandivali (W), Mumbai – 400067.
2.Type of institution	Private
3.Name of Project Proponent	M/s. Shree Siddhivinayak Infrastructure & Realty
4.Name of Consultant	AQURA Enviro Projects Pvt. Ltd.
5.Type of project	SRA Scheme
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	Proposed Slum Rehabilitation Scheme on Plot bearing CTS No. 717(pt), 718(pt), 735, 736, 744(pt), 745(pt), 747(pt) & 748(pt), 751(pt), 752, 753, 754(pt), 795
9.Taluka	Borivali
10.Village	Kandivali
Correspondence Name:	Mr. Amit Ruparel
Room Number:	Plot No. 25/253
Floor:	-
Building Name:	Sarvodaya CHS
Road/Street Name:	Ekta Nagar
Locality:	New Link Road
City:	Kandivali West
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	SRA/ENG/2652/RS/ML/LOI dated 29 July 2017
	IOD/IOA/Concession/Plan Approval Number: SRA/ENG/2652/RS/ML/LOI dated 29 July 2017
	Approved Built-up Area: 69640.32
13.Note on the initiated work (If applicable)	Construction work for Composite Building No. 4 has been initiated as per CC obtained with vide letter no. SRA/ENG/3324/RS/ML/AP dated 19.04.2016 The Constructed Area till date is 5858.27 Sq.m
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	SRA/ENG/2652/RS/ML/LOI dated 29 July 2017
15.Total Plot Area (sq. m.)	17470.08
16.Deductions	2659.21
17.Net Plot area	14810.87
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 59725.18
	b) Non FSI area (sq. m.): 48536.04
	c) Total BUA area (sq. m.): 108261.22
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 59725.18
	Approved Non FSI area (sq. m.): 48536.04
	Date of Approval: 29-07-2017
19.Total ground coverage (m2)	4909.03
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	36%
21.Estimated cost of the project	2672800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Building No. 1A	Ground + 10 (pt) Floors	33.35
2	Rehab Building No. 1B	Ground + 9 Floors	39.30
3	Rehab Building No. 2A	Ground + 22 Floors	68.15
4	Rehab Building No. 2B (School Building)	Stilt + 4 floors	15.95
5	Sale Building No. 3 Wing A	Part Basement + Ground + 40 Floors	139.95
6	Sale Building No. 3 Wing B	Part Basement + Ground + 40 Floors	139.95
7	Sale Building No. 3 Wing C	Part Basement + Ground + 40 Floors	139.95
8	Composite Building No. 4	Ground + 22 Floors	68.15
9	Sale Building No. 5	Ground + 14 Floors	52.20
10	Rehab Building No. 6	Ground + 14 (pt) Floors	45.10

23.Number of tenants and shops	1386 Flats 181 Shops 11 Classrooms
24.Number of expected residents / users	Residential population: 5939, School: 286, Shops: 543
25.Tenant density per hectare	652.04
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	13.40 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	6 m
29.Existing structure (s) if any	Existing Slums
30.Details of the demolition with disposal (If applicable)	Demolition waste disposed of as per letter obtained from Solid Waste Management Department, MCGM with vide letter no. E.E/SWM/285/Z-VN/DT dated 26.07.2017

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**	MCGM & STP
	Fresh water (CMD):	555
	Recycled water - Flushing (CMD):	284
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	839
	Fire fighting - Underground water tank(CMD):	1100
	Fire fighting - Overhead water tank(CMD):	130
	Excess treated water	374
Wet season:	**Source of water**	MCGM & STP
	Fresh water (CMD):	555
	Recycled water - Flushing (CMD):	284
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	839
	Fire fighting - Underground water tank(CMD):	1100
	Fire fighting - Overhead water tank(CMD):	130
	Excess treated water	383
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:**	between 1.0 m to 1.5 m below ground level
	Size and no of RWH tank(s) and Quantity:	10 nos of RWH tanks with total 156 cum capacity
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	10 lacs
	Budgetary allocation (O & M cost) :	0.5 lacs per annum
	Details of UGT tanks if any :	Domestic: Total 555 Cum Flushing: Total 284 cum Firefighting: Total 1100 cum
35.Storm water drainage	**Natural water drainage pattern:**	Strom water drain is laid at a slope of 1: 350 to the municipal outfall outside the plot. Rainwater from site shall be collected by network of storm water piping system through catch basins and storm channel & then allowed to connect to the public storm water line outside the plot boundary.
	Quantity of storm water:	0.169 cum/sec
	Size of SWD:	450 mm wide
Sewage and Waste water	**Sewage generation in KLD:**	743 KLD
	STP technology:	Moving Bed Bio Reactor (MBBR)
	Capacity of STP (CMD):	8 Nos of STP with total 743 KLD capacity
	Location & area of the STP:	Below ground
	Budgetary allocation (Capital cost):	185 Lakh
	Budgetary allocation (O & M cost):	15 Lakh per annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris
	Disposal of the construction waste debris:	Disposal of construction waste will be as per Construction and Demolition and De-silting Waste (Management and Disposal) Rules 2006 at the designated site as directed by the MCGM.
Waste generation in the operation Phase:	**Dry waste:**	1703 Kg/day
	Wet waste:	1135 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	38.5 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry waste would be further segregated into recyclable and non-recyclable. Recyclable will be handed over to authorize vendors and non-recyclable will be disposed off at MCGM landfill sites
	Wet waste:	Wet Garbage will be treated in Mechanical Composting Unit. Organic Waste Convertor (OWC) and the compost generated would be used as manure for gardening purpose and excess would be disposed off to landfill site of MCGM or would be sold to authorize vendors.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dry sludge would be used as manure for gardening purpose and excess would be disposed off to landfill site of MCGM or would be sold to authorize vendors.
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	252 Sq. m
	Area for machinery:	10 Sq. m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	30 Lakh
	O & M cost:	7 lakh 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 :**	1337.60 Sq. m
	No of trees to be cut :	5
	Number of trees to be planted :	120
	List of proposed native trees :	Albizia lebbeck, Azadiracta indica, Alstonia scholaris, Saraca asoka, Bombax ceiba, Anthocephallus cadamba
	Timeline for completion of plantation :	After Completion of construction work

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shirish	20	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	20	Large tree, good for roadside plantation
3	Alstonia scholaris	Satwin	20	Shady Tree, white fragrant flowers
4	Saraca asoka	Sita Ashok	20	Shady tree with red-yellow flowers
5	Bombax ceiba	Katesavar	20	Large tree, red flowers
6	Anthocephallus cadamba	Kadamb	20	Shady, large tree, ball shaped flowers.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy Limited
	During Construction Phase: (Demand Load)	240 KW
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	6294.63 KW
	During Operation phase (Demand load):	4258.19 KW
	Transformer:	5322 KVA
	DG set as Power back-up during operation phase:	2 Nos DG sets of 180 KVA, 4 Nos of 300 KVA, 1 no. of 600 KVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar Water heater & common area lighting on solar power

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar + ECBC	15%

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:**	110 Lakhs
	O & M cost:	5 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	Water Environmrnt	Drinking water	0.2
2	Health	Sanitation	0.8
3	Health	Health check up	0.8
4	Air Environment	Water for dust suppression	0.2

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 & Sewerage network	8 Nos of STP with total 743 KLD capacity	90	15
2	RWH System	10 nos of RWH tanks with total 156 cum capacity	10	0.5
3	Environmental Monitoring	6 monthly Water, Noise , Air quality analysis	0	5
4	Solid Waste Management	Organic Waste converter	30	7
5	Solar Installation	Solar Water heater & common area lighting on solar power	110	5
6	Landscaping	plantation and maintenance of 120 trees	10	1

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	None

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	5820.45 Sq. m.
	Area per car:	12 Sq. m.
	Area per car:	12 Sq. m.
	Number of 2-Wheelers as approved by competent authority:	105
	Number of 4-Wheelers as approved by competent authority:	485
	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	Sanjay Gandhi Ntional Park at 6 km
	Category as per schedule of EIA Notification sheet	8 a
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Representative of PP was present during the meeting along with environmental consultant was present during the meeting along with environmental consultant M/s. AQURA Enviro Projects Pvt. Ltd.

PP submitted their application for prior Environment Clearance for total plot area of 17470.08sq.m, Total BUA of 108261.22sq.m (FSI- 69640.32sq.m+ Non FSI- 48536.04 sq.m). The proposal was previously considered in 60th, 74th& 81stmeeting of SEAC-II dated on 21/4/2018, 15/10/2018 and 10/12/2018 & was deferred with important observation to upload DP remarks, to provide 2 wheeler parking, to submit letter from Competent Authority regarding realignment of DP road.

The building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Rehab Building No. 1A	Ground + 10 (pt) Floors	33.35
Rehab Building No. 1B	Ground + 9 Floors	39.30
Rehab Building No. 2A	Ground + 22 Floors	68.15
Rehab Building No. 2B	(School Building) Stilt + 4 floors	15.95
Sale Building No. 3	Wing A Part Basement + Ground + 40 Floors	139.95
Sale Building No. 3 Wing B	Part Basement + Ground + 40 Floors	139.95
Sale Building No. 3 Wing	C Part Basement + Ground + 40 Floors	139.95
Composite Building No. 4	Ground + 22 Floors	68.15
Sale Building No. 5	Ground + 14 Floors	52.20
Rehab Building No. 6	Ground + 14 (pt) Floors	45.10

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

PP has complied with the points raised in the 81st meeting of SEAC-2 ***hence, Committee decided to recommend the proposal for Environmental Clearance to SEIAA subject to submit letter from Competent Authority regarding realignment of DP road.***

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 90th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 90 **Meeting Date** February 27, 2019

Subject: Environment Clearance for Environment Clearance for Proposed Expansion Project of "Regency Antilia" is located on plot bearing S. No. 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 16, 18, 20, 21 old No.40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 54, 55, 56, 57 & 58 at Village – Mharal, Tal - Ulhasnagar, Dist- Thane, Maharashtra.

Is a Violation Case: No

1.Name of Project	Regency Antilia
2.Type of institution	Private
3.Name of Project Proponent	Mr. ANIL BATHIJA
4.Name of Consultant	Building Environment (India) Pvt.Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	The proposed project has received environmental Clearance dtd. 10th April 2014 for total construction built up area 5,12,640.52 Sq.mt. which cover 13 residential Buildings.
8.Location of the project	on plot bearing S. No. 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 16, 18, 20, 21 old No.40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 54, 55, 56, 57 & 58 at Village – Mharal, Tal - Ulhasnagar, Dist-Thane, Maharashtra
9.Taluka	Ulhasnagar
10.Village	Mharal
Correspondence Name:	Mr. ANIL BATHIJA; Regency Nirman Ltd
Room Number:	--
Floor:	--
Building Name:	Regency house
Road/Street Name:	Near Aman Cinema opp. Vishnu darshan building, Ulhasnagar.
Locality:	Mharal village
City:	Ulhasnagar
11.Area of the project	Ulhasnagar Municipal Corporation (UMC)
12.IOD/IOA/Concession/Plan Approval Number	The Building plan sanctioned by the Ulhasnagar Municipal Corporation vide letter No. UMC / TP / BP/ 125/13/247 Date : 23.03.2018 CC Copy received from UMC on dated 23.03.2018.
	IOD/IOA/Concession/Plan Approval Number: The Building plan sanctioned by the Ulhasnagar Municipal Corporation vide letter No. UMC / TP / BP/ 125/13/247 Date : 23.03.2018 CC Copy received from UMC on dated 23.03.2018.
	Approved Built-up Area: 143979
13.Note on the initiated work (If applicable)	The proposed project has received environmental Clearance dtd. 10th April 2014 for total construction built up area 5,12,640.52 Sq.mt. which cover 13 residential Buildings. Out of this, 3 residential buildings with one assembly building constructed. Details are as follows. Type A (Wing I & II) – Stilt + Podium + 24 Residential Floors Type C1 (Wing I & II) – Stilt + Podium + 24 Residential Floors Type C2 (Wing III & IV) – Stilt + Podium + 24 Residential Floors Club house (Assembly building) – Stilt + 5 Floors i.e. Till date, construction has been completed is 1, 13, 402. 87 Sq. mt, and it is as per EC.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	TThe Building plan sanctioned by the Ulhasnagar Municipal Corporation vide letter No. UMC / TP / BP/ 125/13/247 Date : 23.03.2018 CC Copy received from UMC on dated 23.03.2018.
15.Total Plot Area (sq. m.)	As per EC: 2,47,700.00 Sq.m; Additional Proposed Development as per new DCR : 2,47,700.00 Sq.m; Total: 2,47,700.00 Sq.m
16.Deductions	As per EC: 110240.00 Sq.m; Additional Proposed Development as per new DCR : 98894.00 Sq.m; Total: 98894.00 Sq.m
17.Net Plot area	As per EC: 1,37,460.00 Sq.m; Additional Proposed Development as per new DCR : 11346 (area of Reservations converted in R zone area.) Sq.m; Total: 1,48,806.00 Sq.m

18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** As per EC: 2,74,592.15 Sq. m; Additional Development as per new DCR FSI area: 1,71,407.85 Sq. m & Total : 4,46,000.00 Sq.mt.
	b) Non FSI area (sq. m.): As per EC: 238048.37 Sq. m; Additional Development as per new DCR: 1,25,51.63 Sq.mt & Total : 2,50,600.00 Sq.mt
	c) Total BUA area (sq. m.): 696600
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 4,46,000.00
	Approved Non FSI area (sq. m.): 2,50,600.00
	Date of Approval: 23-03-2018
19.Total ground coverage (m2)	As per EC: 45,300.00 Sq.m; Additional Development as per new DCR: 30765.00 Sq.m; Total area: 76565.00 Sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	As per EC: 18.3 %; Additional Development as per new DCR: 12.4 %; Total: 30.9 %
21.Estimated cost of the project	2500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Type E (E1 & E2):	Stilt + Podium + 25 floors	Max. 90 M
2	Type A (I & II)	Stilt + Podium + 24 floors	Max. 90 M
3	Type A III	Stilt + Podium + 25 floors.	Max. 90 M
4	Type B I	Stilt + Podium + 24 floors.	Max. 90 M
5	Type A IV:	Stilt + Podium + 25 floors.	Max. 90 M
6	Type B III	Stilt + Podium + 25 floors.	Max. 90 M
7	Type C : Building C1	Stilt + Podium + 24 Floors	Max. 90 M
8	Type C : Building C2	Stilt + Podium + 24 Floors	Max. 90 M
9	Type D: D1 Building -	One building with Stilt + Podium + 25 floors.	Max. 90 M
10	D2 Building: -	One building with Stilt + Podium + 25 floors	Max. 90 M
11	D3 Building: -	One building with Stilt + Podium + 25 floors	Max. 90 M
12	Type F: One building with	Stilt + 6 Commercial floors + 20 floors.	Max. 90 M
13	Type C : C3 to C8	- Stilt + Podium + 26 floors	Max. 90 M
14	Type D :	D3 - Stilt + Podium + 25 floors	Max. 90 M
15	Commercial 1	Stilt + 6 Floors	--
16	Commercial 2	--	--
17	Commercial 3	--	--
18	School	G + 4	---
19	Health Centre	G + 3	--
20	Club House (Assembly Building)	--	--

23.Number of tenants and shops	As per EC : Flats: 1680 nos. No. of Shops: 23 nos. No. of Offices: 4 nos. Health center (hospital): 1 No. School: 1 No Club House (assembly building): 1 No. No. of Commercial: 1 Nos. Additional Proposed : Flats: 1384 nos. Commercial 1 : 1 no Commercial 2 : 1 no Commercial 3 : 1 no Total: Flats: 3064 nos. Commercial 1 : 1 no Commercial 2 : 1 no Commercial 3 : 1 no Health centre (hospital): 1 No. School: 1 No. Club House (assembly building): 1 No.
24.Number of expected residents / users	As per EC : Flats occupancy- 10080 Nos Commercial/Shops- 474 Nos School-100 Nos Club House (assembly building)-80 Nos Health centre (Hospital)-170 Nos Total occupancy- 10,904 Nos. Additional Proposed : Flats occupancy- 8304 Nos. Commercial 1 occupancy: 1206 No Commercial 2 occupancy: 558 No Commercial 3 occupancy: 48 No Total – 10116 Nos. Total Occupancy: Flats occupancy- 18384 Nos. Commercial 1 occupancy: 1680 No Commercial 2 occupancy: 558 No Commercial 3 occupancy: 48 No Club House
25.Tenant density per hectare	As per EC: 123.8 / hec Proposed: 226 / 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)	36 M wide Kalyan Ahmednagar Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9 .00 M
29.Existing structure (s) if any	There were no existing structure prior to EC.
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**	Ulhasnagar Municipal Corporation (UMC)
	Fresh water (CMD):	1748.7
	Recycled water - Flushing (CMD):	894.6
	Recycled water - Gardening (CMD):	189.8
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	2833.1
	Fire fighting - Underground water tank(CMD):	--
	Fire fighting - Overhead water tank(CMD):	--
	Excess treated water	--
Wet season:	**Source of water**	Ulhasnagar Municipal Corporation (UMC) and Rain Water Harvesting
	Fresh water (CMD):	1748.7
	Recycled water - Flushing (CMD):	894.6
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	2643.3
	Fire fighting - Underground water tank(CMD):	--
	Fire fighting - Overhead water tank(CMD):	--
	Excess treated water	--
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:**	2–4 M below ground level
	Size and no of RWH tank(s) and Quantity:	Proposed: 7 no. of RWH Tank Zone 1(7 Nos. of buildings) : 1 RWH tank of capacity 545 KLD Zone 2 (4 nos. of buildings) : 1 RWH Tank of capacity 250 KLD Zone 3 (3 nos. of buildings) : 1 RWH Tank of capacity 311 KLD Zone 4 (6 nos. of buildings) : 1 RWH Tank of capacity 225 KLD Commercial : 1 RWH Tank of capacity 908 KLD Health centre (Hospital): 1 RWH Tank of capacity 61 KLD School: 1 RWH Tank of capacity 52 KLD
	Location of the RWH tank(s):	Underground Level
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	279.00 Lacs
	Budgetary allocation (O & M cost) :	30.00 Lacs
	Details of UGT tanks if any :	Location of UGT tanks: Underground Level
35.Storm water drainage	**Natural water drainage pattern:**	The arrangement for disposal of SW through and from the plot as per the remarks of SW department, UMC
	Quantity of storm water:	--
	Size of SWD:	600 mm wide with 1:300 slope There are 2 SWD. Both existing nallahs prior to construction.
Sewage and Waste water	**Sewage generation in KLD:**	As per EC : Sewage Generation: 1208 KLD; Proposed : Sewage Generation: 2264 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	Total 5 Nos. of STP. Residential: 2 no. of STP having capacity 2155 KLD, Health center(hospital) : 1 no. of STP of capacity 15 KLD, School: 1 no. of STP of capacity 10 KLD & Commercial: 1 no. of STP of capacity 100 KLD each.
	Location & area of the STP:	On Ground
	Budgetary allocation (Capital cost):	500.00 Lacs
	Budgetary allocation (O & M cost):	120.00 Lacs /year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Waste generation: Total 13139.96 Cum waste will be generated.
	Disposal of the construction waste debris:	The construction waste generated will reused onsite for filling and back filling purpose.
Waste generation in the operation Phase:	**Dry waste:**	Residential : • Dry waste (Kg/day): 3677 Kg/day. Commercial/ Shops: • Dry waste (Kg/day): 400 Kg/day. School: • Dry waste (Kg/day): 10 Kg/day. Club House (assembly building): • Dry waste (Kg/day): 16 Kg/day. Health centre (hospital Staff): • Dry waste (Kg/day): 26 Kg/day.
	Wet waste:	Residential : Wet waste (Kg/day): 5515 Kg/day. Commercial/ Shops: Wet waste (Kg/day): 171 Kg/day. School: Wet waste (Kg/day): 5 Kg/day. Club House (assembly building): Wet waste (Kg/day): 24 Kg/day. Health centre (hospital Staff): Wet waste (Kg/day): 11 Kg/day.
	Hazardous waste:	Hazardous waste (Kg/month): 0.5 Kg/month
	Biomedical waste (If applicable):	Infectious Waste : 8.5 Kg/day Non Infectious Waste : 1.0 Kg/day
	STP Sludge (Dry sludge):	70 Kg/day.

Mode of Disposal of waste:	**Dry waste:**	Handed over to UMC.
	Wet waste:	OWC & used at site / as manure
	Hazardous waste:	Shall be handed over to authorized common hazardous waste disposal site
	Biomedical waste (If applicable):	Shall be handed over to authorized vendor
	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:	---
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	Curing system area, Raw material area , Area of the dust bin : Residential- 225 sq.mt, Commercial - 28.4 sq.mt
	Area for machinery:	Area of the OWC converter: Residential- 17 sq.mt, Commercial - 12 sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	60.00 Lacs
	O & M cost:	39.00 Lacs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	On ground = 15000 On podium- 22950
	No of trees to be cut :	Nil
	Number of trees to be planted :	1750 nos.
	List of proposed native trees :	Bakul, Bahava, Parijatak, Apta, Sita Asoka, Palm, Drumstick, Soanchaffa, Neem Tree
	Timeline for completion of plantation :	3 Year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bakul	Mimusops elengi	40	Shady giving tree, small white fragrant flowers
2	Parijatak	Nyctanthes arbor-tristis	30	Small deciduous fast growing tree, beautiful flowers
3	Bahava	Cassia fistula	25	Medium sized deciduous tree Beautiful yellow flowers, Butterfly host plant
4	Apta	Bauhinia racemosa	40	Small tree with small white flowers, Butterfly host plant
5	Sita Asoka	Saraca asoka	87	Shade giving tree with Red-Yellow Flowers
6	Udumbara	Ficus racemosa	10	Medicinal importance, fruiting tree
7	Palm	Areca sp.	35	Ornamental
8	Soanchaffa	Michellia champaca	40	Ornamental
9	Drumstick	Moringa oleifera	40	Medicinal properties, edible fruits
10	Jamun	Syzygium cumini	24	Edible fruits
11	Jamun	Syzygium cumini	24	Edible fruits
12	Neem Tree	Azadirachta Indica	40	Medicinal properties
13	Aal tree	Morinda citrifolia	25	Medicinal properties
14	Ashoka Tree	Saraca asoca	40	Ornamental
15	Wild Date Palm	Phoenix sylvestris	27	Ornamental
16	Ber	Zizyphus mauritiana	20	Edible fruits
17	Vavla	Holoptelia integrifolia	30	Edible fruits
18	Umbar	Ficus glomerata	40	Medicinal properties
19	Trincomali wood	Berrya cordifolia	30	Shade giving tree
20	Tree Lettuce	Pisonia alba	20	Shade giving tree
21	Silk Cotton	Bombax ceiba	30	Ornamental
22	Coconut Tree	Cocos nucifera	35	Edible fruits with Medicinal properties
23	Christmas Tree	Araucaria sp.	27	Ornamental
24	Parijatak	Nyctanthes arbor-tristis	45	Shade giving tree with fragrant White Flowers
25	Wild Date Palm	Phoenix sylvestris	27	Ornamental

45.Total quantity of plants on ground	

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

Serial Number	Name	C/C Distance	Area m2
1	Coral Creeper	--	--
2	Adulsa	--	--
3	White plumbago (Chitrak)	--	--
4	Kusar/Ran jai	--	--
5	Krushna kamal	--	--
6	Bougainvillea	--	--

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	--
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	Residential: Connected Load : 15428 kw; Commercial: Connected Load : 396 kw; Total: Connected Load :15824 KW
	During Operation phase (Demand load):	Residential: Maximum Demand : 9859 kw ; Commercial: Maximum Demand : 311 kw; Total: Maximum Demand : 10170 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	For zone 1 (7 Nos. of buildings): 1 DG set with 380 Kva capacity. For zone 2 (4 nos. of buildings): 1 DG set with 320 Kva capacity. For zone 3 (3 nos. of buildings): 1 DG set with 320 Kva capacity. For Zone 4 (6 nos. of buildings): 1 DG set with 380 Kva capacity. For Commercial: 1 DG set with 320 Kva capacity. For health centre: 1 DG set with 140 Kva capacity. For School: 1 DG set with 30 Kva capacity.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

? Total hot water requirement met through Centralized solar system.
? 60% lighting including for Road, Landscape & garden shall be kept on solar system.
? Also other Lights provided on Energy saving luminaries like LED instead of metal halide lamps
? Provided with Time switch to be kept operational only during night mode
? For Lobby, use of LED would ensure power density of less than 1.3w/sq ft
? 60% of Lobby & Staircase Lights shall be put on Solar PV Panels
? All motors used in pumps of services shall be of class 1 category that would give better efficiency (60%+)& less losses
? Energy Meters for External Lighting, all water Pumps
? Electrical cables of derated capacity to avoid heating during working thereby saving the current losses

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Residential :	Total Energy saving 6 % & by solar 4.4 %

2	Commercial:	Total Energy saving 8 % & by solar 4.6 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 338.00 Lacs
	O & M cost:	Rs 61.00 Lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	--	Water spray for dust suppression	5.0
2	--	Site sanitation and Potable Water Supply to Labour	10.0
3	--	Environmental Monitoring (As per the CPCB guidelines through MoEF Approved laboratories)	4.0
4	--	Health check-up & first aid	5.0
5	--	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves, Safety nets etc.)	18.0
6	--	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	4.0
7	--	Storm water Management (SWD along plot boundary and Sedimentation Pits)	4.0
8	--	Safety Training to Workers (Twice in Year), Safety Officer	8.0
9	--	Disinfection	3.0
10	--	Debris & construction waste	25.50
11	--	DMP Team	15.0
12	--	Total Cost	251.11

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	--	500	120

2	Rain water harvesting + Water Treatment Plant	--	279	30
3	Solid Waste Management	--	60	39
4	Energy Saving	--	338	61
5	Gardening & Landscaping	--	120	12
6	DMP	--	90.80	25.00
7	---	Total	136.78	283.00

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:	One
Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Residential ,commercial and central podium area : 46,000 sq. m
	Total Parking area:	49500.00 sq. m
	Area per car:	13.75 Sq.m.
	Area per car:	13.75 Sq.m.
	Number of 2-Wheelers as approved by competent authority:	6490 Nos.
	Number of 4-Wheelers as approved by competent authority:	3703 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6 – 9 M
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	Category 8(b)
	Court cases pending if any	Nil
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP Mr. Anil Bhatija& Architect Mr. Anil Nirgude were present during the meeting along with environmental consultant M/s. Building Environment (India) Pvt.Ltd.

Committee noted that, the project under consideration is expansion project. The EC dated 10/4/2014 has been accorded for the project having the total plot area 2,47,700.00 Sq.mt, Net plot area 1,37,460.00 Sq.mt& total built up area 5,12,640.52 Sq.mt. (FSI 2,74,592.15 Sq.mt +Non FSI 2,74,592.15 Sq.mt) which cover 13 residential Buildings.

PP stated that, due to change in DCR & deletion of certain reservations and availability of increased TDR additional construction of 1,83,959.48 sq.mt is proposed. Therefore the project under consideration is having total plot area 2,47,700.00 Sq.mt, Net plot area 1,48,806.00Sq.mt & total built up area 6,96,600.00Sq.mt. (FSI 4,46,000.00Sq.mt +Non FSI 2,50,600.00Sq.mt) which cover 20 residential Buildings and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Type E (E1 & E2): M	Stilt + Podium + 25 floors	Max. 90
Type A (I & II)	Stilt + Podium + 24 floors	Max. 90 M
Type A III	Stilt + Podium + 25 floors.	Max. 90 M
Type B I	Stilt + Podium + 24 floors.	Max. 90 M
Type A IV:	Stilt + Podium + 25 floors.	Max. 90 M
Type B III	Stilt + Podium + 25 floors.	Max. 90 M
Type C : Building C1	Stilt + Podium + 24 Floors	Max. 90 M
Type C : Building C2	Stilt + Podium + 24 Floors	Max. 90 M
Type D: D1 Building -	One building with Stilt + Podium + 25 floors.	Max. 90 M
D2 Building: -	One building with Stilt + Podium +25 floors	Max. 90 M
D3 Building: -	One building with Stilt + Podium + 25 floors	Max. 90 M
Type F:	One building with Stilt + 6 Commercial floors + 20 floors.	Max. 90 M
Type C : C3 to C8 -	Stilt + Podium + 26 floors	Max. 90 M
Type D :	D3 - Stilt + Podium + 25 floors	Max. 90 M
Commercial 1	Stilt + 6 Floors	--
Commercial 2	--	--
Commercial 3	--	--
School	G + 4	--
Health Centre	G + 3	--
Club House (AssemblyBuilding)	--	--

PP further stated that, Out of this 13 residential, 3 residential buildings with one assembly building constructed within EC limits. PP stated that, the TOR for the project was received from EAC, MoEF & CC on 14.08.2017.

PP informed that, a detailed hydrological modelling was carried out by CWPRS to study & mitigate the impacts from flooding due to proximities of UlhasRiver. The mitigation measures proposed by CWPRS were implemented & audited. The audit report was submitted to RO MOEF.

Committee noted that, the project was previously considered in 84th& 88thSEAC II meeting held on 7/1/2019 &11/2/2019& was deferred with observations including PP to submit Nalla remarks, architect certificate regarding building wise construction done on site, to submit the structural stability certificate.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B1) category of EIA Notification, 2006. Consolidated statements, EIA, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

PP has complied with the points raised in the 88th meeting of SEAC-2 ***hence, Committee decided to recommend the proposal for Environmental Clearance to SEIAA subject to follow the CER activities as per approval of local body.***

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 90th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 90 **Meeting Date** February 27, 2019

Subject: Environment Clearance for 'TCS Banyan Park' - Phase 1 of IT Park

Is a Violation Case: No

1.Name of Project	TCS Banyan Park - Phase 1 of IT Park
2.Type of institution	Green Building
3.Name of Project Proponent	Tata Consultancy Services Ltd.
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Industrial Estate, with all building being LEED Gold Certified
6.New project/expansion in existing project/modernization/diversification in existing project	Proposal is for ex-postfacto environment clearance for Phase 1 with existing structures Block A,C & J, B,D,E,L & M, K (Basement to A & B), Canopy & Bridge.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	in this regard Member Secretary, MPCB letter No BO/RO(P&P)/ TB-686 dtd 23 Jan 2006 is relevant
8.Location of the project	Plot bearing C.T.S. Nos. 221, 228, 234 & 235 of village Gundavali, Suren Road, Andheri (East), Mumbai.
9.Taluka	Andheri
10.Village	Gundavali
Correspondence Name:	Mr.T. Prafullachandran (Corporate Head, Administration), Location Head - Banyan Park (Coordinator)
Room Number:	-
Floor:	-
Building Name:	TCS House
Road/Street Name:	Raveline Street
Locality:	Fort
City:	Mumbai - 400001
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOD No. E.B/CE/8748/WS/AK of 2006.
	IOD/IOA/Concession/Plan Approval Number: IOD No. EB/CE/8748/WS/AK of 2006. Initial plan approval ref No CE/1767/WS/LOKEN dtd 1st Mar 2006. Amended plan approved on 24th July 2009
	Approved Built-up Area: 60603.34
13.Note on the initiated work (If applicable)	9 Structures Block A,C & J, B,D,E,L & M, K (basement to A & B), Canopy & Bridge are constructed
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	90,122.50 sqm
16.Deductions	13,072.67 sqm
17.Net Plot area	77,049.86 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 40,603.34
	b) Non FSI area (sq. m.): 20,000
	c) Total BUA area (sq. m.): 60603
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 40,603.34
	Approved Non FSI area (sq. m.): 20,000
	Date of Approval: 02-05-2006
19.Total ground coverage (m2)	13087
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	17%
21.Estimated cost of the project	3207400000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Block A	Ground floor + 2 upper floors	14.2
2	Block B	Ground floor + 2 upper floors	14.2
3	Block C & J	Ground floor + 2 upper floors	14.2
4	Block D	Ground floor + 2 upper floors	14.2
5	Block E	Ground floor + 2 upper floors	14.2
6	Block E	Ground floor + 2 upper floors	14.2
7	Block L	Ground floor +1 Basement	11.87 , basement at -12
8	Block M	Ground floor	3.4
9	Basement K Block (Basement below Block A & B)	Basement level 1 +Basement level 2	-7
10	Canopy	Canopy at height of first floor	5.6
11	Bridge	Bridge at height of first floor	9

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	2500
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 M DP Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.0 M
29.Existing structure (s) if any	9 structures (Block A,C & J,B,D,E,L & M, K (basement to A & B) ,Canopy and bridge) are constructed
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**	MCGM -119 m3/day, STP -120 m3/day & Borewell -295 m3/day
	Fresh water (CMD):	119 MCGM
	Recycled water - Flushing (CMD):	60 m3/day from Borewell
	Recycled water - Gardening (CMD):	175 m3 from borewell
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	534
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	50
	Excess treated water	120 m3 /day from STP & 60 m3 /day from borewell for cooling tower
Wet season:	**Source of water**	MCGM -119 m3/day, STP -120 m3/day & Borewell -120 m3/day
	Fresh water (CMD):	119 MCGM
	Recycled water - Flushing (CMD):	60 m3/day from Borewell
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	359
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	50
	Excess treated water	120 m3 /day from STP & 60 m3 /day from borewell for cooling tower
Details of Swimming pool (If any)	Swimming Pool water capacity is 720 Cum and plant is in shut down condition since date of commission.	

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:**	3.5 mts
	Size and no of RWH tank(s) and Quantity:	2 nos. (1 of 50 cum and 1 of 7.5 cum)
	Location of the RWH tank(s):	Block L and near tennis court.
	Quantity of recharge pits:	16 recharge pits are available
	Size of recharge pits :	2.5m x 2.5m x 3.5m
	Budgetary allocation (Capital cost) :	34.89 lacs
	Budgetary allocation (O & M cost) :	6 lacs per annum
	Details of UGT tanks if any :	2 lacs ltrs - 2 Nos for BMC water storage 7.5 KL -1 No for RWH at tennis court 3 KL - 1 No for Gundavali Water Body 3 KL - 1 No for Courtyard Water Body We have below mentioned tanks in Basement at L block - 75 KL x 2 Nos as Fire Tank 50 KL x 2 Nos as Domestic Raw Water Tank 50 KL x 2 Nos as Domestic Treated Water Tank 50 KL x 2 Nos as HVAC Tank 50 KL x 3 Nos as Borewell Water Tank 50 KL x 1 No as Irrigation / RWH Water Tank
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drain pattern is maintained.
	Quantity of storm water:	1300 cum/ day
	Size of SWD:	600 mm wide
Sewage and Waste water	**Sewage generation in KLD:**	Currently 76 cmd generated and having plant capacity of 128 cmd
	STP technology:	SAFF
	Capacity of STP (CMD):	1 STP of 130 cmd
	Location & area of the STP:	Utility Block L
	Budgetary allocation (Capital cost):	INR 2000000
	Budgetary allocation (O & M cost):	INR 216000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris generated was disposed off to MCGM approved land filling sites
	Disposal of the construction waste debris:	Debris generated was disposed off to MCGM approved land filling sites
Waste generation in the operation Phase:	**Dry waste:**	165 kg/ day
	Wet waste:	135 kg/ day
	Hazardous waste:	Used lube oil appx 350 ltrs per year,
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	STP sludge not generated as sewage input is very less & water quality is high. In case dry sludge gets generated it will be passed through press to form cake & cube utilised for gardening purpose.
	Others if any:	Battery waste generated appx 15 874 kg once in four year, Non biodegradable waste appx 1.6 kg per day including e waste, plastic etc

Mode of Disposal of waste:	**Dry waste:**	Composted on site through composting pits, vermicomposting bags, organic waste converter with tray & non biodegradable waste is handed over to authorized recycler.
	Wet waste:	Composted on site through Biomethanization plant & Organic waste converter
	Hazardous waste:	Disposed off through CPCB/ MPCB authorized vendors
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	If generated it will be passed through installed filter press , to form cakes & cubes and utilized for gardening purpose.
	Others if any:	Batteries & ewaste Disposed off through CPCB /MPCB authorized vendors only
Area requirement:	**Location(s):**	Near tennis court
	Area for the storage of waste & other material:	1300 sq ft for dry waste segregation, 2500 sq ft for horticultural waste & 5000 sq ft for e waste & general scrap
	Area for machinery:	60 sq mtrs (Biomethanization plant, Organic Waste converter , vermicomposting pits)
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	24.54 lacs
	O & M cost:	5.45 lacs 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	Used Lube oil	5.1	lts	350 ltrs	Not applicable	350	CPCB authorised vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	5 nos. attached to DG sets	HSD of 150 lit	5	15.35 m, 15.35 m, 15.35 m, 10.36 m, 5 m	0.254 m, 0.254 m, 0.254 m, 0.22 m , 0.1 m	150 0C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	HSD fuel tank capacity of 990 ltrs for 4 nos and 100 ltrs for 40 kva DG	0	4060 lit
41.Source of Fuel		Public Petrol Pump Andheri East		
42.Mode of Transportation of fuel to site		In barrels of 200 lit in approved vehicles on hire		

43.Green Belt Development	**Total RG area :**	2111.88 sqm. Total landscape area is appx 14 acres
	No of trees to be cut :	190 trees cut
	Number of trees to be planted :	380 trees are planted
	List of proposed native trees :	Refer enclosed tree list
	Timeline for completion of plantation :	Plantation done

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Refer enclosed tree list	Refer enclosed tree list	Refer enclosed tree list	Refer enclosed tree list
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Refer enclosed tree list	Refer enclosed tree list	Refer enclosed tree list

47.Energy

Power requirement:	**Source of power supply :**	Tata Power and Reliance Power
	During Construction Phase: (Demand Load)	Not applicable
	DG set as Power back-up during construction phase	Not applicable
	During Operation phase (Connected load):	3713 KW (Tata Power) +400 KW (Reliance Infrastructure)
	During Operation phase (Demand load):	3.4 MVA
	Transformer:	1250 KVA x 3 nos
	DG set as Power back-up during operation phase:	3 x 1010 kva + 1 x 600 kva + 1 x 40 kva DG sets are installed
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Using LED/CFL lights and energy efficient fixtures and
Use of motion detection sensors
Using energy efficient motors & group control facility for lifts
Using ISI rating motors with 60% efficiency water pumps
Using ISI rating motors with 75% efficiency motors
Energy metering system for internal and external lighting
Creation of Remote Energy Monitoring center and use of analytics
Use of automatic sprinkler system for garden area

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	10%	6,00,000, kwh units per year

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Biodegradable Dry & Wet waste	Biomethanation plant & Organic waste converter	Already installed
Horticulture waste	Vermicomposting	Already installed
Sewage Generation	Sewage treatment plant	Already installed
Solid Waste (Non biodegradable)	Waste segregation area	Already provided
Sewage Generation	STP	Already installed
Air emission from DG Set	Provision of DG stack & stack monitoring	Already installed

Noise from DG set	DG acoustic enclosure provided	Already installed

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2.1 crs (LED Lamps, VFD installation in AHU, Auto motion & installation of Roof top solar plant, CO2 sensor & fresh air damper)
	O & M cost:	14 lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	SAFF	20 lacs	2.16 lacs
2	Solid waste management	Biomethanization, OWC, Vermicomposting pits	24.54 lacs	5.45 lacs
3	Rain water harvesting System	RWH & Recharge pits	34.89 lacs	6 lacs
4	Landscaping	14 acres	204 lacs	50 lacs
5	Energy Saving Features	Measures as per MOEF notification dated 9th Dec 2016 & ECBC 2016 guidelines	210 lacs	14 lacs
6	Environmental Monitoring	DG state, Air quality, noise	0	0.6 lacs

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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., Code of practice. Traffic calming measures suggested by institute of Urban Transport Planning are implemented as per MOEF circular dtd 09 Dec 2016

Parking details:	**Number and area of basement:**	2 nos. 1,32,935 sqft in K block, 31,624 sqft in L block
	Number and area of podia:	Not applicable
	Total Parking area:	1,32,935 sqft
	Area per car:	121 sqft
	Area per car:	121 sqft
	Number of 2-Wheelers as approved by competent authority:	150
	Number of 4-Wheelers as approved by competent authority:	385
	Public Transport:	Not applicable
	Width of all Internal roads (m):	internal drive way of minimum width of 6 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	At apprx 10.2 km from Sanjay Gandhi National Park
	Category as per schedule of EIA Notification sheet	Category B : 7(c) to be read in conjunction with 8 (a)
	Court cases pending if any	Please refer point v)
	Other Relevant Informations	Aggrieved by the Direction issued by the Member Secretary, SEAC dtd 16th Jan 2017, appeal No. 8/2017 was filed by TCS before the NGT Western Zone Bench Pune The Hon'ble Tribunal by its order in the said Appeal on 28.11.2017, directed us to approach MoEF for post facto approval of the project. TCS filed it's online application for Ex Post Facto Environment Clearance for Phase 1 under Sl. No. 7 (c) of the Schedule to the Ministry of Environment, New Delhi and in reply to our above mentioned application, The Member Secretary, Expert Appraisal Committee, (Infra 2), Ministry of Environment, New Delhi, vide online Essential Detail Sought dated 01.02.2018 directed TCS to refile the application before the State Expert Appraisal Committee II (SEAC II), Maharashtra. TCS responded to online Essential Detail Sought dated 01.02.2018 to the Ministry of Environment and Forest, New Delhi vide its letter dated 08.03.2018_requesting The Member Secretary, Expert Appraisal Committee, Ministry of Environment and Forest, New Delhi to process the TCS application for grant ex post facto Environment Clearance to the Phase-I of the IT Park at Andheri (W), Mumbai as directed by the NGT. As TCS did not receive any response to its letter dated 08.03.2018 from The Member Secretary, TCS filed an Execution Application No. 27 or 2018 in Appeal No. 8 of 2017 [WZ] before the NGT inter alia, for the execution of the judgment dated 28.11.2017 passed by the NGT and seeking appropriate directions upon the Ministry of Environment and Forest, New Delhi. The Execution Application was heard by the NGT on 12.04.2018. The matter comes up for hearing on 03.05.2018. This application is filed without prejudice to our rights.

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	28-12-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP Mr. T. Prafullachandran was present during the meeting along with environmental consultant M/S Aditya Environmental Services Pvt. Ltd.

Committee noted that, the proposal previously considered in 68th, 84th&87thSEAC-2 meeting held on 7/9/2018, 7/1/2019 & 7/2/2019 respectively. In 87th Meeting, the proposal was considered under MoEF&CC notification regarding violation dated 14th March 2017 & 8th March 2018 and accordingly, additional ToR as per the format suggested bySEIAA vide letter dated 30.01.2019 was approved.

PP informed that, they have submitted the EIA. Committee noted that, calculations of the Damage assessment report, remediation plan and Natural and Community Resource Augmentation Plan is not as per the format suggested by SEIAA vide letter dated 30.01.2019, ***hence, Committee decided to deferred and shall be considered only after the compliance of above observations.***

DECISION OF SEAC

Committee noted that, calculations of the Damage assessment report, remediation plan and Natural and Community Resource Augmentation Plan is not as per the format suggested by SEIAA vide letter dated 30.01.2019, ***hence, Committee decided to deferred and shall be considered only after the compliance of above observations.***

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 90th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 90 **Meeting Date** February 27, 2019

Subject: Environment Clearance for Proposed Residential cum Commercial Project at Land bearing Gut No. 224, Gut No. 226/2 & Gut No. 226/3 at Village: Makane (Saphale), Tal. & Dist Palghar, Maharashtra Proposed by M/s. Mahavir Mahalaxmi Infra

Is a Violation Case: No

1.Name of Project	M/s. Mahavir Mahalaxmi Infra
2.Type of institution	Private
3.Name of Project Proponent	M/s. Mahavir Mahalaxmi Infra
4.Name of Consultant	Mahabal Enviro Engg. Pvt. Ltd.; Dr. D. A. Patil
5.Type of project	Group Housing scheme 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	-
8.Location of the project	At Gut. No. 224, Gut No. 226/2 & Gut No. 226/3 at Village: Makane (Saphale) Tal. Palghar, Dist. Palghar, Maharashtra.
9.Taluka	Palghar
10.Village	Makane (Saphale)
Correspondence Name:	Mr. Amit Takhatsing Solanki
Room Number:	Survey Nos. 198/1
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	Village - Makane, Saphale (West)
City:	Palghar
11.Area of the project	Town Planning, Palghar
12.IOD/IOA/Concession/Plan Approval Number	Approval from Town Planning, Palghar- Outward No. ADTP-Palghar Branch /NAP/BP/ Village: Makane/Taluka. Palghar / Gut No. 224 and Others/ Resident and commerce/1990 Date: 15.12.2017; Approval from Collector, Palghar- No. Revenue/ K.1/T.1/NAP/SR-358/2017, Collector Office Palghar. Date 22.02.2018; Approval from Collector, Palghar- No. Revenue/ K.1/T.1/NAP/SR-270/2018, District Collector Office Palghar. Date 19.11.2018
	IOD/IOA/Concession/Plan Approval Number: Approval from Town Planning, Palghar- Outward No. ADTP-Palghar Branch /NAP/BP/ Village: Makane/Taluka. Palghar / Gut No. 224 and Others/ Resident and commerce/1990 Date: 15.12.2017; Approval from Collector, Palghar- No. Revenue/ K.1/T.1/NAP/SR-358/2017, Collector Office Palghar. Date 22.02.2018; Approval from Collector, Palghar- No. Revenue/ K.1/T.1/NAP/SR-270/2018, District Collector Office Palghar. Date 19.11.2018
	Approved Built-up Area: 57122.58
13.Note on the initiated work (If applicable)	No work has been started yet
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Approval from Town Planning, Palghar- Outward No. ADTP-Palghar Branch /NAP/BP/ Village: Makane/Taluka. Palghar / Gut No. 224 and Others/ Resident and commerce/1990 Date: 15.12.2017; Approval from Collector, Palghar- No. Revenue/ K.1/T.1/NAP/SR-358/2017, Collector Office Palghar. Date 22.02.2018; Approval from Collector, Palghar- No. Revenue/ K.1/T.1/NAP/SR-270/2018, District Collector Office Palghar. Date 19.11.2018
15.Total Plot Area (sq. m.)	44,840.00 m2
16.Deductions	649.86 m2
17.Net Plot area	35,787.47 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 46,481.06 m2
	b) Non FSI area (sq. m.): 10,641.52 m2
	c) Total BUA area (sq. m.): 57123

18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 46,481.06 m2
	Approved Non FSI area (sq. m.): 10,641.52 m2
	Date of Approval: 19-11-2018
19.Total ground coverage (m2)	10,226.11 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23 %
21.Estimated cost of the project	1104600000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	23 Nos. of Buildings	G + 4 Floors	14.70
2	Amenity (School Building)	G + 4 Floors	15.0
3	Clubhouse	G + 2 Floors	12.0

23.Number of tenants and shops	Flats: 1,283 Nos. Shops: 543.24 m2 School area: 4,372.7 m2
24.Number of expected residents / users	8,218 Nos.
25.Tenant density per hectare	359/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)	15 m Wide Road towards Virathan Khurd 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	Vacant Land
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**	Water Supply From Grampanchayat
	Fresh water (CMD):	622 KLD
	Recycled water - Flushing (CMD):	325 KLD
	Recycled water - Gardening (CMD):	22 KLD
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	947 KLD
	Fire fighting - Underground water tank(CMD):	-
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	422 KLD
Wet season:	**Source of water**	Water Supply From Grampanchayat +RWH
	Fresh water (CMD):	439 KLD + 184 KLD
	Recycled water - Flushing (CMD):	325 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	947 KLD
	Fire fighting - Underground water tank(CMD):	-
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	551 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:**	3-4 m
	Size and no of RWH tank(s) and Quantity:	20 tanks of total 380 KL capacity will be provided
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	87 Lakhs
	Budgetary allocation (O & M cost) :	4 Lakhs/year
	Details of UGT tanks if any :	Underground
35.Storm water drainage	**Natural water drainage pattern:**	The slope of the area is from North To South side of the plot
	Quantity of storm water:	3,357.59 m2/hr
	Size of SWD:	700 mm x 800 mm
Sewage and Waste water	**Sewage generation in KLD:**	885 KLD
	STP technology:	INTEGRATED WETLAND TECHNOLOGY (IWT), IIT MUMBAI
	Capacity of STP (CMD):	925 KLD
	Location & area of the STP:	Ground (1,550 m2)
	Budgetary allocation (Capital cost):	Rs. 185 Lakhs
	Budgetary allocation (O & M cost):	Rs. 37 Lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris : 1,700 m3
	Disposal of the construction waste debris:	The construction debris waste will be disposed as per Construction debris and demolition waste management Rule 2016
Waste generation in the operation Phase:	**Dry waste:**	1,434 kg/d
	Wet waste:	2,151 kg/d
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	9 m3/day
	Others if any:	Household E-Waste Generation

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	The E-waste shall be handed over to e-waste management vendor authorized by MPCB (if any).
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	175 m2
	Area for machinery:	100 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 88 Lakhs
	O & M cost:	Rs. 35 Lakhs/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	RG required: 4,440.58 m2; RG proposed 4,445 m2
	No of trees to be cut :	157 Nos.
	Number of trees to be planted :	525 Nos.
	List of proposed native trees :	As mention below
	Timeline for completion of plantation :	After 2-3 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shirish	42	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	40	Large tree, good for roadside plantation
3	Ailanthus excelsa	Maharukh	38	Large tree, good for roadside plantation
4	Ficus retusa	Nandruk	35	Shady tree, good for roadside plantation
5	Alstonia scholaris	Satwin	25	Shady Tree, white fragrant flowers
6	Pongamia pinnata	Karanj	35	Shady tree.
7	Saraca asoka	Sita Ashok	39	Shady tree with red-yellow flowers.
8	Anthocephallus cadamba	Kadamb	35	Shady, large tree, ball shaped flowers.
9	Cassia fistula	Bahava	45	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
10	Mimusops elengi	Bakul	32	Shady tree, small white fragrant flowers
11	Lagerstroemia flos-regineae	Tamhan	35	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
12	Bauhinia racemosa	Apta	22	Small tree with small white flowers, Butterfly host plant
13	Erythrina indica	Pangara	45	Medium sized deciduous tree. Bright scarlet flowers.
14	Caryota urens	Fish tail palm	22	Tall evergreen tree
15	Butea monosperma	Palas	35	Medium sized deciduous tree. Beautiful orange 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	-	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	200 kVA
	DG set as Power back-up during construction phase	200 kVA
	During Operation phase (Connected load):	5.7 MW
	During Operation phase (Demand load):	3.1 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	Total DG set Capacity: 1000 kVA , (2 X 250 & 1 X 500 kVA)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	-

48.Energy saving by non-conventional method:

- Solar street lights are proposed for common area such as open spaces, pathways, RG etc.
- Solar hot water will be provided.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saving Calcaulation	23.2 %

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. 100 Lakhs
	O & M cost:	Rs. 5 Lakhs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	8.5
2	Site sanitation (Toilets)	-	4.5

3	Environmental Monitoring	(As per the CPCB guidelines through MoEF Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time)	6
4	Potable Water Supply to Labour Camp	-	6
5	Health check-up & first aid	-	3.5
6	Safety Personal Protective Equipment	Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	8
7	Traffic Management	Sign Boards, Persons at entry exit and Parking area	2.5
8	Safety nets	-	2
9	Tyre cleaning and Vehicle maintenance	-	3.5
10	Solid Waste Management & Site maintenance activity	-	2
11	Safety - Training to Workers (Twice in Year), Safety Officer	-	1.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	185	37
2	Solar System	Weekly	100	5
3	Rain Water Harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	87	4
4	Solid waste Composting plant	Continuous O & M	88	35
5	Landscape development	Daily	44	4
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	4

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

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

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	15 m Wide Road towards Virathan Khurd Road
Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	5,479.60 m2
	Area per car:	Open parking: 12.5 m2
	Area per car:	Open parking: 12.5 m2
	Number of 2-Wheelers as approved by competent authority:	1,798 Nos.
	Number of 4-Wheelers as approved by competent authority:	50 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	6 m to 15 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Representative of PP was present during the meeting along with environmental consultant M/S. Mahabal EnviroEngg. Pvt. Ltd

PP informed that, the project under consideration is a residential cum Commercial Project with the plot area is 44,840.00 Sq.mt and total construction area is 57,123 Sq.mt. PP further state that, the proposal was earlier considered in the 72nd SEAC II and 86th SEAC II meeting held on 8/10/2018 & 28/1/2019. Committee noted that, as per minutes of 86th meeting, PP asked to submit revised consolidated statement along with updated Form 1&1A as the area was increased than the earlier appraised project in the 72nd meeting.

PP further informed that, the earlier plot area proposed was 48,863.53 Sq.mt & now the total plot area of the project is 44,840.00Sq. mt. having total construction areawith full potential is 57123Sq. mt. (FSI - 46,481.06 Sq. mt.+ NON FSI- 10,641.52 Sq. mt). The building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
23 Nos. of Buildings	G + 4 Floors	14.70
Amenity (School Building)	G + 4 Floors	15.0
Clubhouse	G + 2 Floors	12.0

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.

Specific Conditions by SEAC:

1) PP to ensure BOD of treated water in STP less than 5 and also to ensure zero discharge by using all treated water for gardening and landscaping and by providing holding pond of minimum 2 days capacity with aeration arrangement and upload details of same. The planning authority to ensure this and not grant the OC till all arrangements for zero discharge level are made or the surplus water, if any, of STP is connected to sewer line network of planning authority which will be coming up around the project site.
2) PP to ensure that, school building proposed in amenity space should be as per RTE Act.
3) Committee noted that energy saving by renewable energy is 6.5 %, PP to try to increase the % of renewable energy saving.
4) PP to explore the possibility of installation of bio-methanation plant instead of OWC.
5) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project or Environment Department may direct PP to undertake CER work in identified area

FINAL RECOMMENDATION

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

SEAC Meeting number: 90 **Meeting Date** February 27, 2019

Subject: Environment Clearance for "Tharwani Majestic Towers" Proposed Residential Buildings with shopline on plot bearing S.No. 4/2, 4/4, 25/6, 26/8, Plot No. 1 at village Barave, Taluka Kalyan, District Thane by M/s. Tharwani Realty

Is a Violation Case: No

1.Name of Project	"Tharwani Majestic Towers"
2.Type of institution	Private
3.Name of Project Proponent	M/s. Tharwani Realty (Through it's Proprietor Mr. Anil H Tharwani)
4.Name of Consultant	EIA Co-ordinator : Mr Sourabh S Jaiswar SGM Corporate Pvt Ltd
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing S.No. 4/2, 4/4, 25/6, 26/8, Plot No. 1 at village Barave
9.Taluka	Kalyan
10.Village	Barave
Correspondence Name:	M/s. Tharwani Realty (Through it's Proprietor Mr. Anil H Tharwani)
Room Number:	310-313
Floor:	3rd Floor
Building Name:	Persipolis Premises CHS
Road/Street Name:	Plot No 74, Sector 17
Locality:	Vashi
City:	Navi Mumbai
11.Area of the project	Kalyan Dombivli Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD received from Kalyan Dombivali Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: KDMC/NRV/BP/KV-2016-17/09/01 05/04/2018
	Approved Built-up Area: 32044.37
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	KDMC/NRV/BP/KV-2016-17/09/01 05/04/2018
15.Total Plot Area (sq. m.)	13510
16.Deductions	5310
17.Net Plot area	7500
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22498.91
	b) Non FSI area (sq. m.): 26187.88
	c) Total BUA area (sq. m.): 48686.79
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 15914.37
	Approved Non FSI area (sq. m.): 16130.00
	Date of Approval: 05-04-2018
19.Total ground coverage (m2)	1718.42
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25 %
21.Estimated cost of the project	1350000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Tower A	Gr + 3 Level Podium + 4th to 30th Floors	95.95
2	Tower B	Gr + 3 Level Podium + 4th to 31st Floors	98.95
3	Club House	Gr + 1st floor	8.85

23.Number of tenants and shops	Flats: 327 No's Shops: 04 No's Offices : 03 No's
24.Number of expected residents / users	Flats: 1635No's Shops: 12 No's ; Office: 38 No's Total : 1685 No's
25.Tenant density per hectare	240 Tenants/ hectar
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m Wide DP road at east & 15 m wide DP road at South
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7 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**	KDMC / Recycled STP Water
	Fresh water (CMD):	162 KLD
	Recycled water - Flushing (CMD):	82 KLD
	Recycled water - Gardening (CMD):	6 KLD
	Swimming pool make up (Cum):	20 cum
	Total Water Requirement (CMD) :	250 KLD
	Fire fighting - Underground water tank(CMD):	200 cum
	Fire fighting - Overhead water tank(CMD):	25 cum X 4 No's
	Excess treated water	110 KLD
Wet season:	**Source of water**	KDMC / Recycled STP water / RWH water
	Fresh water (CMD):	162 KLD
	Recycled water - Flushing (CMD):	82 KLD
	Recycled water - Gardening (CMD):	NIL
	Swimming pool make up (Cum):	20 cum
	Total Water Requirement (CMD) :	244 KLD
	Fire fighting - Underground water tank(CMD):	200 cum
	Fire fighting - Overhead water tank(CMD):	25 cum X 4 No's
	Excess treated water	116 KLD
Details of Swimming pool (If any)	16M X 8M Source : Tanker Water	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6 - 8 m
	Size and no of RWH tank(s) and Quantity:	50 cum X 1 RWH Tank
	Location of the RWH tank(s):	Ground level
	Quantity of recharge pits:	NIL
	Size of recharge pits :	NIL
	Budgetary allocation (Capital cost) :	Rs. 15 lakhs
	Budgetary allocation (O & M cost) :	Rs. 1.00 Lakhs/annum
	Details of UGT tanks if any :	NIL
35.Storm water drainage	**Natural water drainage pattern:**	East to West Direction
	Quantity of storm water:	0.124 cum/sec
	Size of SWD:	300 mm wide X 600 mm deep
Sewage and Waste water	**Sewage generation in KLD:**	193 KLD
	STP technology:	MBBR TECHNOLOGY
	Capacity of STP (CMD):	1 STP of 200 cum Capacity
	Location & area of the STP:	Ground level
	Budgetary allocation (Capital cost):	Rs. 55 Lakhs
	Budgetary allocation (O & M cost):	Rs. 07 Lakhs/ annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Broken tiles : 56 kg . Cement Bags= 135 Bags (Empty bags to be handed over to recycler.), Paint container (@20L) = 92 Nos. (To be handed over to recycler.)
	Disposal of the construction waste debris:	Debris will be used for back filling and counter weight of raft, road work etc. Brickbats will be used for waterproofing. Reinforcement will be sent for reuse Nominal surplus construction debris shall be disposed of by covered trucks to the authorized sites with the permission of local body
Waste generation in the operation Phase:	**Dry waste:**	336 kg/day
	Wet waste:	495 kg/day
	Hazardous waste:	NIL
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	18 kg
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be hand over to local recyclers.
	Wet waste:	Will be processed in Organic Waste Composter for manure for landscaping/ gardening
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Shall be used as manure
	Others if any:	NIL
Area requirement:	**Location(s):**	Ground Level
	Area for the storage of waste & other material:	16 sq.mt
	Area for machinery:	12 sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 15 Lakhs
	O & M cost:	Rs. 4 Lakhs/ annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	1125 sq.mt
	No of trees to be cut :	NIL
	Number of trees to be planted :	169
	List of proposed native trees :	As displayed in table
	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	Cassia Fistula	Bahava	16	Avenue Tree
2	Michelia champaka	Fragnant Champaka	28	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
3	Anthocephallus cadamba	Kadamb	20	Shady, large deciduous tree, fastgrowing graceful tree, ballshaped flowers.
4	Plumeria alba	Plumeria	26	Evergreen tree, white-yellow fragrant flowers
5	Polyalthia longifolia	Mast Tree	34	Evergreen tree, effective against noise pollution
6	Phoenix sylvestris	Silver date palm	22	Avenue Tree
7	Saraca indica	Ashoka Tree	23	Shady tree with red-yellow flowers
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	125 KVa
	During Operation phase (Connected load):	3816 KW
	During Operation phase (Demand load):	2508 KW
	Transformer:	3000 KVA
	DG set as Power back-up during operation phase:	1 No. of 380 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Solar lighting on PV Panels
2. T5 & LED lights for staircase and Lobby area
3. Pole Lights put on Solar Panels
4. Hotwater Solar Panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Savings	21 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 65 Lakhs
	O & M cost:	Rs. 5.75 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	Water for Dust Suppression	To control air pollution	1.2
2	Site Sanitation, Disinfection & Safety	To maintain hygienic condition	2.5
3	Environmental Monitoring	Air, water, noise and soil analysis	3.0
4	Health Check Up	To check fitness of workers	1.8

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 wate	15	1
2	Sewage Treatment Plant	To treat sewage	55	7
3	Organic Waste Converter	To treat biodegradable solid waste	15	4
4	Tree Plantation	For green belt development	28	3
5	Energy saving	For use of solar lighting and solar heater	65	5.75

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Project site is connected by 30 m wide 15 m DP road
Parking details:	**Number and area of basement:**	NIL
	Number and area of podia:	3 Level of Podium with 8501.10 sq.mt Parking Area
	Total Parking area:	11240.25 sq.mt
	Area per car:	22 sq.mt
	Area per car:	22 sq.mt
	Number of 2-Wheelers as approved by competent authority:	120
	Number of 4-Wheelers as approved by competent authority:	513
	Public Transport:	NIL
	Width of all Internal roads (m):	6 m wide road

	CRZ/ RRZ clearance obtain, if any:	NIL
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NIL
	Category as per schedule of EIA Notification sheet	Category 8 (a) B2
	Court cases pending if any	NIL
	Other Relevant Informations	NIL
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	24-05-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

Representative of PP was present during the meeting along with environmental consultant M/S SGM Corporate Pvt Ltd

DECISION OF SEAC

Committee noted that, the plan for the project was not approved by planning authority and also copy of acknowledgement for plans submitted to local planning authority doesn't reflect the proposed total built up area of the project, hence ***proposal is deferred and shall be considered only after the compliance of above observations.***

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 90th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 90 **Meeting Date** February 27, 2019

Subject: Environment Clearance for Environment Clearance for Vrindavan Flora- Phase- 1 ON GUT NO. 15, 16, 17/1A ,17/2 AT-CHAMBHARLI, TAL -KHALAPUR , DIST -RAIGAD

Is a Violation Case: No

1.Name of Project	Vrindavan Flora- Phase- 1 ON GUT NO. 15, 16, 17/1A ,17/2 AT-CHAMBHARLI, TAL -KHALAPUR , DIST -RAIGAD
2.Type of institution	Private
3.Name of Project Proponent	Damodar Vaman More & Others Though its POA Ashvin Laxman Patel Director of Thalia Labha Home Pvt Ltd & Partner of Thalia Labha Builders & Thalia Vastu Infra Projects
4.Name of Consultant	Mr. Hrushikesh Kolatkar Building Environment India Pvt. Ltd. Head Office: Dakshin Building, Office No-401,4th Floor, Beside Raigard Bhavan, Sakal Bhavan Rd, Sector 11, CBD Belapur, Navi Mumbai, Maharashtra 400614
5.Type of project	Housing
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion Construction
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	At village Chambharli ,Khalapur. Gut No. 15, 16, 17/1A ,17/2
9.Taluka	Khalapur
10.Village	Chambharli
Correspondence Name:	Ashvin L. Patel- POAH
Room Number:	Shop No. 5,
Floor:	Ground floor
Building Name:	Landmark
Road/Street Name:	--
Locality:	Plot No. D2, Sector-12,Kharghar
City:	Navi Mumbai - 410206
11.Area of the project	SPA MSRDC
12.IOD/IOA/Concession/Plan Approval Number	It is MMR region,DCR is under MMR region There is no provision of LOI/IOD CC is obtained after getting EC
	IOD/IOA/Concession/Plan Approval Number: Gut no. 16. MH/LNA1(B)/SR423/2011, (Dt. 10/12/2012), Gut No. 16 MSRDC/SPA/ CHAMBHARLI/ KHALAPUR/ BP03/CC/2017/268, (Dt. 27/03/2017), Gut No. 15, 16, 17/1A ,17/2 RDC/SPA/ CHAMBHARLI/ KHALAPUR/ BP126/CC/2018/554,(Dt.1/06/2018)
	Approved Built-up Area: 12725.426
13.Note on the initiated work (If applicable)	Building No. 1 construction carried out up to plinth Area = 469.995 Sq. m, Building No. 2 construction carried out up to plinth Area = 780.059 Sq. m, Building No. 3 construction completed Area = 4249.082 Sq. m, Building No. 4 construction carried out up to G+7(finishing work in progress) = 2699.808 Sq. m
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	It is MMR region,DCR is under MMR region There is no provision of LOI/IOD. CC is issued after getting EC
15.Total Plot Area (sq. m.)	16155 Sq.m
16.Deductions	531.923 Sq.m (RP road area)
17.Net Plot area	15623.077 Sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20744.657
	b) Non FSI area (sq. m.): 10704.604
	c) Total BUA area (sq. m.): 31449.261
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 12725.426
	Approved Non FSI area (sq. m.): 7012.516
	Date of Approval: 22-02-2019
19.Total ground coverage (m2)	3560.586

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	22.78
21.Estimated cost of the project	480355200

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No. 1	G+6	20.760
2	Building No. 2	G+9	29.400
3	Building No. 3	G+4	14.950
4	Building No. 4	G+7	23.640
5	Building No. 5	G+12	38.040
6	Clubhouse	G+1	6.600

23.Number of tenants and shops	Flats-457 Shops-00
24.Number of expected residents / users	Residential- 2285
25.Tenant density per hectare	265per 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)	12 mt.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 mt.
29.Existing structure (s) if any	Building No. 1 construction carried out up to plinth Area = 469.995 Sq. m, Building No. 2 construction carried out up to plinth Area = 780.059 Sq. m, Building No. 3 construction completed Area = 4249.082 Sq. m, Building No. 4 construction carried out up to G+7(finishing work in progress) = 2699.808 Sq. m Total Constructed area: 8198.944
30.Details of the demolition with disposal (If applicable)	Not 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**	MIDC
	Fresh water (CMD):	206
	Recycled water - Flushing (CMD):	103
	Recycled water - Gardening (CMD):	Gardening 10+ Car washing 1.2
	Swimming pool make up (Cum):	NIL
	Total Water Requirement (CMD) :	320
	Fire fighting - Underground water tank(CMD):	As per fire NOC
	Fire fighting - Overhead water tank(CMD):	As per fire NOC
	Excess treated water	136
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	206
	Recycled water - Flushing (CMD):	103
	Recycled water - Gardening (CMD):	Gardening 0 + Car Washing 1.2
	Swimming pool make up (Cum):	NIL
	Total Water Requirement (CMD) :	310
	Fire fighting - Underground water tank(CMD):	As per fire NOC
	Fire fighting - Overhead water tank(CMD):	As per fire NOC
	Excess treated water	146
Details of Swimming pool (If any)	N/A	

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:**	2-3 m
	Size and no of RWH tank(s) and Quantity:	No. of Tanks = 6, Total Capacity = 52 Cubic Meter
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	12 lakhs
	Budgetary allocation (O & M cost) :	0.6 lakhs
	Details of UGT tanks if any :	5 U.G Tanks for Domestic Water, total capacity = 272.65 Cubic Meter 5 U.G Tanks for Flushing Water, total capacity = 136.68 Cubic Meter 6 RWH Tank, Total Capacity = 50.7 Cubic Meter
35.Storm water drainage	**Natural water drainage pattern:**	As Per Natural Drainage Pattern
	Quantity of storm water:	--
	Size of SWD:	600mm,500mm,100mm
Sewage and Waste water	**Sewage generation in KLD:**	278
	STP technology:	RMBR
	Capacity of STP (CMD):	No. 1, 280 KLD
	Location & area of the STP:	Underground, 150 Sq. m
	Budgetary allocation (Capital cost):	36.5 lakhs
	Budgetary allocation (O & M cost):	8.5 lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	114 T per year
	Disposal of the construction waste debris:	Construction waste will be disposed according to C&D waste rules 2016
Waste generation in the operation Phase:	**Dry waste:**	0.31 TPD
	Wet waste:	0.80 TPD
	Hazardous waste:	Waste Oil From D.G Sets
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	0.07 TPD
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	Handover to authorized vendor
	Wet waste:	OWC
	Hazardous waste:	Will be disposed as per Hazardous Waste Rules, 2016. Disposed off through Mumbai Waste Management
	Biomedical waste (If applicable):	Disposed off through authorized agency
	STP Sludge (Dry sludge):	composted and then used as manure is landscape area
	Others if any:	Nil
Area requirement:	**Location(s):**	Ground Level
	Area for the storage of waste & other material:	as below
	Area for machinery:	85 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18 Lakhs
	O & M cost:	3 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 :**	1649.324 sq.mt on ground
	No of trees to be cut :	1
	Number of trees to be planted :	247 trees
	List of proposed native trees :	As Attached
	Timeline for completion of plantation :	Plantation is carried out in construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	As Attached	As Attached	As Attached	As Attached
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	N/A	N/A	N/A

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100kw
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	4393KVA
	During Operation phase (Demand load):	1043Kva
	Transformer:	2x630KVA
	DG set as Power back-up during operation phase:	50 KVAx2
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NOC Attached (Gut No.16) NOC No.- EE/EHV/Panvel/ 1011

48.Energy saving by non-conventional method:

Energy saving through solar street lightening and Solar panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	Energy saving using Solar panels	52KVA

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.31.20 lakhs
	O & M cost:	Rs.1.56lakh/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	Suspended particles	Water spray For Dust Suppression	3.00
2	Sanitation	Site sanitation and Potable Water Supply to Labour	10.0
3	Environmental Monitoring	Environmental Monitoring (As per the CPCB guidelines through MoEF&CC Approved laboratories)	4.0
4	excavation/construction waste	Health check-up & first aid	1.0
5	Safety Personal Protective Equipment	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves, Safety nets etc.)	5.0
6	Traffic Management	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	2.5
7	Storm water Management	Storm water Management, construction of Storm water drainage network from project site to State highway.	Included in civil cost
8	Safety Training to Workers	Safety Training to Workers (Twice in Year), Safety Officer	3.0
9	Disinfection	Disinfection	1.0
10	Debris & construction waste	Debris & construction waste	3.0
11	DMP	DMP	5
12	EM cell	EM cell	5
13	Total Cost	---	106.5

b) Operation Phase (with Break-up):

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

1	sewage treatment	Sewage Treatment Plant	36.50	3.6
2	Solid Waste Management	Solid Waste Management	18	3
3	Rain Water Management	Rain Water Harvesting	12	0.6
4	RG Area	Green Belt	4.5	1.15
5	Energy Saving	Energy Saving features	31.20	2.0
6	Fire Fighting measures	Fire Fighting measures	Covered in Construction phase	15
7	Monitoring of Environmental Parameters	Monitoring of Environmental Parameters	--	3.5
8	Environment monitoring cell	Environment monitoring cell	--	4.9
9	TOTAL	--	98	16.98

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1

Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	3009 Sq. M
	Area per car:	Big car-12.5sq.mt, small car-10.35 sq.mt
	Area per car:	Big car-12.5sq.mt, small car-10.35 sq.mt
	Number of 2-Wheelers as approved by competent authority:	Scooter - 636, Cycle - 636, Total - 1272
	Number of 4-Wheelers as approved by competent authority:	Car-124
	Public Transport:	--
	Width of all Internal roads (m):	12 mt.
	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	8B 2
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-06-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP Mr.Ashwin Patel was present during the meeting along with environmental consultant Environmental Consultant- M/s. Building Environment India Pvt. Ltd.

PP informed that, the total plot area of the project is 16,155 Sq. mt having total construction area 31449 sq.mt (FSI -20744.657sq. m+Non-FSI- 10704.604 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Building No. 1	G+6	20.760
Building No. 2	G+9	29.400
Building No. 3	G+4	14.950
Building No. 4	G+7	23.640
Building No. 5	G+9	29.400
Clubhouse	G+1	6.600

PP further informed that, till now total construction of 8198.944 sq.mt carried out on site. Building wise construction done on site is as follow-

Building No.	**Construction Done**		**Remark**
	Floors	**Area in sq.mt**	
Bldg No. 1	Plinth	469.995 Sq. m	Building No. 1 construction carried out up to plinth Area
Bldg No.2	Plinth	780.059 Sq. m	Building No. 2 construction carried out up to plinth Area
Bldg No.3	G+4	4249.082 Sq. m,	Construction completed
Bldg No.4	G+7	2699.808 Sq. m	Construction completed. (Finishing work in progress)
Building 5	---	--	No work initiated on site
Total	**---**	**8198.944 sq.m**	--

PP informed that, they had submitted the application for Environment Clearance based on the then prevalent DCR as per standardized Development Control And Promotion Regulations for Municipal Councils and Nagar Panchayats In Maharashtra on 1st October 2018.And now MSRDC has published Draft Development Control and Promotion Regulations inNovember, 2018, therefore there are major changes in published MSRDC Draft DCR regarding amenity space, room sizes and FSI so the project details have changed accordingly.

PP further informed that, the proposal was previously considered in 76th SEAC II meeting held on 26/10/2018. But since the total built up area of the project increases the proposal was appraised afresh.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity

DECISION OF SEAC

After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.

Specific Conditions by SEAC:

9) PP to upload the history & chronology of the project including its PMAY status.
10) PP to upload the plan submitted to the MSRDC- special planning authority.
11) PP informed that, NoC from Maharashtra State Electricity Transmission Co. Ltd(Mahatransco) received regarding high tension line. PP toensure that no activity should be carried out upto 30 mt from high tension line.
12) Committee noted that there is no sewer line and storm water drainage network of local body/planning authority around the site. The PP is instructed to ensure that BOD of STP should be less than 5 and that no surplus water of STP is discharged in river or any natural drainage by him. The PP ensured that there will be zero discharge from this project as all surplus water will be used in his upcoming big project in the adjoining land. The PP to upload undertaking to this effect. The surplus water of STP will ultimately get connected to sewage treatment/Sewer line network of local body/planning authority due to be completed in due course. The planning authority not to grant OC till zero discharge arrangements are made or the surplus water, if any, is connected to sewer network of planning authority which may be coming up in due course.
13) The PP to upload Storm water design and its calculations.
14) PP to ensure that RG should be minimum 10 % & it should be on mother earth. PP to upload revised RG statement along with plan.
15) PP to ensure ECBC norms are complied.
16) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project or Environment Department may direct PP to undertake CER work in identified area, as identified by Environment Department.

FINAL RECOMMENDATION

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

Agenda of 90th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 90 **Meeting Date** February 27, 2019

Subject: Environment Clearance for Vrindavan Flora- Phase- 2 at Gut No. 17/1B,18/1,18/2, 19,20, 21, 22,24,25 26,27,28 village Chambharli Tal-Khalapur Dist- Raigad by Sushil Bhutia & Others Though its POA Ashvin Laxman Patel Director of Thalia Labh Homemakers Pvt Ltd & Partner of Thalia Vastu Infra Projects

Is a Violation Case: No

1.Name of Project	Vrindavan Flora- Phase- 2 at Gut No. 17/1B,18/1,18/2, 19,20, 21, 22,24,25 26,27,28 village Chambharli Tal-Khalapur Dist- Raigad by Sushil Bhutia & Others Though its POA Ashvin Laxman Patel Director of Thalia Labh Homemakers Pvt Ltd & Partner of Thalia Vastu Infra Projects
2.Type of institution	Private
3.Name of Project Proponent	Sushil Bhutia & Others Though its POA Ashvin Laxman Patel Director of Thalia Labh Homemakers Pvt Ltd & Partner of Thalia Vastu Infra Projects
4.Name of Consultant	Building Environment India Pvt ltd
5.Type of project	Housing
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	Gut No. 17/1B,18/1,18/2, 19,20, 21, 22,24,25 26,27,28 village Chambharli Tal-Khalapur Dist-Raigad
9.Taluka	Khalapur
10.Village	Chambharli
Correspondence Name:	Shop No 5, Landmark Bldg, Plot No D-2, Sector 12, Kharghar, Navi Mumbai 410210
Room Number:	Shop No 5, Landmark Bldg, Plot No D-2, Sector 12, Kharghar, Navi Mumbai 410210
Floor:	Shop No 5, Landmark Bldg, Plot No D-2, Sector 12, Kharghar, Navi Mumbai 410210
Building Name:	as above
Road/Street Name:	as above
Locality:	as above
City:	Kharghar, Navi Mumbai 410210
11.Area of the project	SPA MSRDC
12.IOD/IOA/Concession/Plan Approval Number	It is MMR region,DCR is under MMR region .There is no provision of LOI/IOD CC is obtained after getting EC
	IOD/IOA/Concession/Plan Approval Number: It is MMR region,DCR is under MMR region .There is no provision of LOI/IOD CC is obtained after getting EC
	Approved Built-up Area: 70164.293
13.Note on the initiated work (If applicable)	NIL
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	It is MMR region,DCR is under MMR region There is no provision of LOI/IOD CC is obtained after getting EC
15.Total Plot Area (sq. m.)	47305
16.Deductions	4349.220
17.Net Plot area	42955.780
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 71341.216
	b) Non FSI area (sq. m.): 35081.959
	c) Total BUA area (sq. m.): 106423.175
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 45223.575
	Approved Non FSI area (sq. m.): 24940.718
	Date of Approval: 22-02-2019
19.Total ground coverage (m2)	9793.030

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	22.80
21.Estimated cost of the project	1738068990

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No 1	S+12	37.460
2	Building No 2	S+12	37.460
3	Building No 3	S+11	36.480
4	Building No. 4	S+13	40.920
5	Commercial-1	G+2	12.300
6	Commercial-2	G	4.800
7	Club House 1	G+2	13.850
8	Club House 2	G+1	9.000
9	Swimming Pool	--------	1.50(depth)
10	Transformer	Ground structure	3.500
11	Substation	Ground structure	4.000

23.Number of tenants and shops	Flats -1347 Shops-65
24.Number of expected residents / users	6735
25.Tenant density per hectare	247
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12mt. wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 mt.
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	611.903KLD
	Recycled water - Flushing (CMD):	309.12KLD
	Recycled water - Gardening (CMD):	34.902 KLD+Car washing 4.22 KLD
	Swimming pool make up (Cum):	2.730 KLD
	Total Water Requirement (CMD) :	960.145 KLD
	Fire fighting - Underground water tank(CMD):	as per Fire NOC
	Fire fighting - Overhead water tank(CMD):	as per Fire NOC
	Excess treated water	396
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	611.903KLD
	Recycled water - Flushing (CMD):	309.12KLD
	Recycled water - Gardening (CMD):	Recycled water (Gardening)0KLD+Car washing 4.22 KLD
	Swimming pool make up (Cum):	2.73KLD
	Total Water Requirement (CMD) :	925.243KLD
	Fire fighting - Underground water tank(CMD):	as per Fire NOC
	Fire fighting - Overhead water tank(CMD):	as per Fire NOC
	Excess treated water	431
Details of Swimming pool (If any)	Area-181.850 Sq.mt Depth-1.50 mt. Located in club house	

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:**	2-3m
	Size and no of RWH tank(s) and Quantity:	No. of Tanks=16, Total capacity = 149.38 m
	Location of the RWH tank(s):	UG tanks
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	30Lakhs
	Budgetary allocation (O & M cost) :	1.5lakhs
	Details of UGT tanks if any :	Domestic:788CUM Flushing:403CUM RWH tank:151KL
35.Storm water drainage	**Natural water drainage pattern:**	As per storm water drainage work
	Quantity of storm water:	--
	Size of SWD:	Drainage line width 1000MM, 450MM & 450MM
Sewage and Waste water	**Sewage generation in KLD:**	840 KLD
	STP technology:	RMBR technology
	Capacity of STP (CMD):	No. 1
	Location & area of the STP:	Ground 73
	Budgetary allocation (Capital cost):	73
	Budgetary allocation (O & M cost):	25 lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	3.50 T per day through out construction period
	Disposal of the construction waste debris:	Disposed through C&D rules 2016
Waste generation in the operation Phase:	**Dry waste:**	0.94TPD
	Wet waste:	2.32 TPD
	Hazardous waste:	Waste oil from DG sets
	Biomedical waste (If applicable):	Sanitary waste 135kg/week
	STP Sludge (Dry sludge):	0.21TPD
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	0.94TPD will be disposed through recyclers
	Wet waste:	2.32 TPD will be treated in OWC
	Hazardous waste:	waste oil from DG sets
	Biomedical waste (If applicable):	Sanitary waste will be disposed off though local body.
	STP Sludge (Dry sludge):	0.21TPD
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Ground floor
	Area for the storage of waste & other material:	150 sq.m
	Area for machinery:	150 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18 lakhs
	O & M cost:	3lakhs

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 :**	4298.826
	No of trees to be cut :	19
	Number of trees to be planted :	783
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	Plantation is carried out in construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Attached	Attached	Attached	Attached
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100kva
	DG set as Power back-up during construction phase	100KVA
	During Operation phase (Connected load):	12051KVA
	During Operation phase (Demand load):	2817KVA
	Transformer:	3X750KVA+1x630KVA
	DG set as Power back-up during operation phase:	100kva and 125 kva
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	(Line passing through Gut no.17/1B, 18/1, 20, 24) NOC No.- CE/EHV/PC O&M/Zone/VSH/Tech/EE/00817

48.Energy saving by non-conventional method:

Energy saving through street lighting and solar panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	Energy saving through solar street lighting and solar panels	132.6KVA Solar Power

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.1,23,00,000.00
	O & M cost:	5% of capital 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	Water For Dust Suppression	Water spray for dust suppression	7.0
2	Site Sanitation, Disinfection & Health Check Up	Site sanitation and Potable Water Supply to Labour	20.0
3	Environmental Monitoring	Environmental Monitoring (As per the CPCB guidelines through MoEF&CC Approved laboratories)	4.0
4	Health check-up & first aid	Health check-up & first aid	3.0
5	Safety Personal Protective Equipment	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves, Safety nets etc.)	10.0
6	Traffic Management	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	5
7	Storm water Management	Storm water Management	Included in civil cost
8	Safety Training to Workers	Safety Training to Workers (Twice in Year), Safety Officer	5.0
9	Disinfection	Disinfection	2.5
10	Debris & construction waste	Debris & construction waste	7.0
11	DMP	DMP	445
12	EM cell	EM cell	8
13	Total Cost	----	516.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	STP	73	17.5

2	Rain water harvesting	Rain water harvesting + Water Treatment Plant	30	1.5
3	Monitoring of Environmental	Monitoring of Environmental Parameters	--	3.50
4	Solid Waste Management	Solid Waste Management	18	3
5	Energy Saving	Energy Saving	79.56	3.0
6	Green area Development	Green area Development	4.5	1.15
7	DMP	DMP	Covered in Construction phase	3.48
8	Environment Management Cell	Environment Management Cell	Covered in Construction phase	4.9

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:	Not applicable
	Total Parking area:	9871.90
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	Scooter-1891, Cycle-1891
	Number of 4-Wheelers as approved by competent authority:	Car-422
	Public Transport:	nil
	Width of all Internal roads (m):	12mt and 15 mt
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NIL
	Category as per schedule of EIA Notification sheet	8B2
	Court cases pending if any	Yes.Details are attached
	Other Relevant Informations	NIL
	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

Representative of PP was present during the meeting along with environmental consultant: M/S Building Environment India Pvt ltd.

PP informed that, the total plot area of the project is 47305 Sq.mt. Sq. mt.having total construction area 1,06,423sq.mt (FSI - 71341.216 sq. m +Non-FSI- 35081.959 Sq.mt) and the building configuration is as follow-

Building Details		
Building no.	Floors	Height(mt.)
1	S+12	37.460
2	S+12	37.460
3 (Commercial on ground floor)	S+11	36.480
4	S+13	40.920
Commercial-1	G+2	12.300
Commercial-2	G	4.800
Club House 1	G+2	13.850
Club House 2	G+1	9.000
Swimming Pool	----	1.50(depth)
Transformer	Ground structure	3.500
Substation	Ground structure	4.000

PP informed that, they had submitted the application for Environment Clearance based on the then prevalent DCR as per standardized Development Control And Promotion Regulations for Municipal Councils and Nagar Panchayats In Maharashtra on 1st October 2018. And now MSRDC has published Draft Development Control and Promotion RegulationsinNovember, 2018, therefore there are major changes in published MSRDC Draft DCR regarding amenity space, room sizes and FSI so the project details have changed accordingly.

PP further informed that, the proposal was previously considered in 76th SEAC II meeting held on 26/10/2018. But since the total planning for the project is changed, the proposal was appraised afresh.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, synopsis of

DECISION OF SEAC

After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.

Specific Conditions by SEAC:

10) PP to upload the history & chronology of the project including its PMAY status.
11) PP to submit the tree cutting NoC.
12) PP to upload the NOC received from Director of Fire Services.
13) Committee noted that there is no sewer line and storm water drainage network of local body/planning authority around the site. The PP is instructed to ensure that BOD of STP should be less than 5 and that no surplus water of STP is discharged in river or any natural drainage by the PP. The PP to upload undertaking to this effect. The PP further ensured that in initial phases there will be zero discharge from this project as all surplus water will be used in next phases as it is a big project. The PP to upload undertaking to this effect also. The surplus water of STP will ultimately get connected to sewage treatment/Sewer line network of local body/planning authority due to be completed in due course. The planning authority not to grant OC till zero level discharge arrangements are made under initial phases and that the surplus water of STP of further phases get ultimately connected to sewage treatment/sewer line network of planning authority.
14) The PP to upload storm water drainage design and its calculations.
15) PP informed that Patalganga river is at 1.15 km from project site and that its tributary is at 70 meter from site. PP to submit report of Irrigation/ Water Resources Department about no blue/red zone of said river/tributary falling in project site.
16) PP informed that, NoC from Maharashtra State Electricity Transmission Co. Ltd.(Mahatransco) received regarding high tension line.
17) PP to upload revised layout showing minimum 10% RG on Mother Earth
18) PP to ensure ECBC norms are complied.
19) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project or Environment Department may direct PP to undertake CER work in identified area, as identified by Environment Department.

FINAL RECOMMENDATION

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

Agenda of 90th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 90 **Meeting Date** February 27, 2019

Subject: Environment Clearance for Application for Amendment in Environment Clearance of "Proposed redevelopment project" at plot bearing C.S. No. 128,129 & 130, Lower Parel Division, G/S ward, Dr. E. Moses Road, Worli, Mumbai- 400 018. State- Maharashtra by M/s. Indiabulls Infraestate Ltd. (Joint Development with M/s. Oricon Properties Pvt. Ltd.)

Is a Violation Case: No

1.Name of Project	"Proposed redevelopment project" at plot bearing C.S. No. 128,129 & 130, Lower Parel Division, G/S ward, Dr. E. Moses Road, Worli, Mumbai- 400 018. State- Maharashtra by M/s. Indiabulls Infraestate Ltd. (Joint Development with M/s. Oricon Properties Pvt. Ltd.)
2.Type of institution	Private
3.Name of Project Proponent	M/s. Indiabulls Infraestate Ltd. (Joint Development with M/s. Oricon Properties Pvt. Ltd.)- Mr. Purav Kiranbhai Acharya
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., F-7, Road No. 21, Wagle Estate, Thane (West)-400604, Maharashtra
5.Type of project	Mixed Redevelopment project comprising of rehabilitation building with shops, residential & commercial sale buildings and reservation secondary school building.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion/Diversification
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	We have received Environment Clearance from SEIAA, Government of Maharashtra for existing proposal (File no. SEAC-2013/C.R.502/ TC-1 dated 01.12.2014)
8.Location of the project	C.S. No. 128, 129 & 130, Lower Parel Division, G/S ward, Dr. E. Moses Road, Worli, Mumbai-400 018. State- Maharashtra.
9.Taluka	Mumbai
10.Village	Mumbai
Correspondence Name:	Mr. Purav Kiranbhai Acharya
Room Number:	-
Floor:	16th Floor
Building Name:	Indiabulls Finance Centre
Road/Street Name:	612-613, Senapati Bapat Marg
Locality:	Elphinstone Mills Compound
City:	Mumbai-400013
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	We have received IOD from MCGM having File no. EB/7060/GS/A dated 27.06.2014 for existing proposal and We have applied for revised proposal having application File no. CHE/CTY/0654/GS/337 (NEW) for the amended plans as per revised scheme
	IOD/IOA/Concession/Plan Approval Number: We have received IOD from MCGM having File no. EB/7060/GS/A dated 27.06.2014 for existing proposal and We have applied for revised proposal having application File no.CHE/CTY/0654/GS/337 (NEW) for the amended plans as per revised scheme.
	Approved Built-up Area: 56857
13.Note on the initiated work (If applicable)	No work has been started yet, except shore piling abutting to MMRCL-3 line.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MHADA NOC received on dated 06.06.2013 and revalidated on 05.04.2018; MMRCL NOC received on dated 08.12.2017
15.Total Plot Area (sq. m.)	7810
16.Deductions	-
17.Net Plot area	7810
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 56857
	b) Non FSI area (sq. m.): 76957
	c) Total BUA area (sq. m.): 133814

18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 56857
	Approved Non FSI area (sq. m.): 76957
	Date of Approval: 27-06-2014
19.Total ground coverage (m2)	3857
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.38
21.Estimated cost of the project	7238900000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Reservation Secondary School (Building 3)	2 Basement + Ground + 6th floors	27.15
2	Sale (Building 2) (Residential building)	3 Basement + Ground + 1st to 7th Parking floors + 8th to 75th upper floors	281.60
3	Sale (Building 2A) (Commercial building)	3 Basement + Ground + 1st to 7th Parking floors + 8th to 17th upper floors	70.40
4	Wing A (Building 1) (Rehab redevelop)	1 Basement + Ground (shops) + Service floors + 1st to 19th Upper floors	69.10

23.Number of tenants and shops	1. Residential building (sale) flats– 114 2. Wing A (Rehab redevelop) (flats) – 258 3. Wing A (Rehab redevelop) (shops) – 24 Total tenements – 396 nos.
24.Number of expected residents / users	1. Residential building (sale) – 798; 2.Commercial building (sale) – 1,685 ; 3.Wing A (Rehab redevelop) (flats) – 1,074; 4.Wing A (Rehab redevelop) (shops) – 72 ; 5.School building (reservation secondary school) - 415; Total population – 4,044 nos.
25.Tenant density per hectare	507 tenants/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Internal road - 6 m & 9 m; Turning radius - 9 m
29.Existing structure (s) if any	There were existing chawls & shops on site which were demolished and existing tenants shall be rehabilitated in proposed redevelopment buildings.
30.Details of the demolition with disposal (If applicable)	Debris generated due to demolition disposed off as per approved Debris Management NOC.

31.Production Details

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

1	Not applicable	Not applicable	Not applicable	Not applicable

32.Total Water Requirement

Dry season:	**Source of water**	Municipal Corporation of Greater Mumbai (MCGM)
	Fresh water (CMD):	210
	Recycled water - Flushing (CMD):	136
	Recycled water - Gardening (CMD):	8
	Swimming pool make up (Cum):	8
	Total Water Requirement (CMD) :	422
	Fire fighting - Underground water tank(CMD):	700
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	79
Wet season:	**Source of water**	Municipal Corporation of Greater Mumbai (MCGM)
	Fresh water (CMD):	210
	Recycled water - Flushing (CMD):	136
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	8
	Total Water Requirement (CMD) :	414
	Fire fighting - Underground water tank(CMD):	700
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	87
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:**	1.50 m to 3.40 m
	Size and no of RWH tank(s) and Quantity:	4 nos. of RWH tank having total capacity 235 m3
	Location of the RWH tank(s):	Basement 1 level
	Quantity of recharge pits:	1 no. of Ring well consisting 6 nos. of recharge pits
	Size of recharge pits :	1 no. of Ring well having size 6.0 x 3.60 x 6.60 m, which consists of 6 nos. of recharge pits having 1.20 m diameter in size.
	Budgetary allocation (Capital cost) :	Rs.7.75 Lakh
	Budgetary allocation (O & M cost) :	Rs.0.40 Lakh/year
	Details of UGT tanks if any :	Wing A (Building 1) (Rehab redevelop): UGT (Domestic) 100m3 , UGT (Flushing) 50m3, UGT (Fire Fighting) 200 m3; Sale (Building 2) (Residential building): UGT (Domestic)75 m3, UGT (Flushing) 38 m3, UGT (Fire Fighting) 200 m3, Sale (Building 2A) (Commercial building): UGT (Domestic) 35 m3, UGT (Flushing) 40 m3, UGT (Fire Fighting) 200 m3; Reservation Secondary School (Building 3) :UGT (Domestic) 8.50 m3, UGT (Flushing) 10.50 m3, UGT (Fire Fighting) 100 m3
35.Storm water drainage	**Natural water drainage pattern:**	Along the road side
	Quantity of storm water:	0.107 m3/sec
	Size of SWD:	Maximum 450 mm
Sewage and Waste water	**Sewage generation in KLD:**	314 m3/day
	STP technology:	Moving bed bio reactor (MBBR)
	Capacity of STP (CMD):	1.Wing A (Rehab redevelop)– STP-1- 135 m3/day; 2.Residential Building (Sale) – STP-2- 100 m3/day ; 3.Commercial Building (Sale) – STP-3- 70 m3/day ; 4.Reservation Secondary Building– STP-4- 20 m3/day
	Location & area of the STP:	Basement Level; Area of STP - 260 m2
	Budgetary allocation (Capital cost):	Rs.42.25 Lakh
	Budgetary allocation (O & M cost):	Rs.15.50 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	485 kg/day
	Disposal of the construction waste debris:	Disposal of the construction waste debris: Debris generated will be sent to the authorized debris disposal site as per “Construction and Demolition and De-silting Waste (Management and Disposal) Rules 2006.
Waste generation in the operation Phase:	**Dry waste:**	321 kg/day
	Wet waste:	602 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	3 kg/day
	Others if any:	E-waste: 10 kg/day; Inert Waste: 70 kg/day

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed of to recyclers.
	Wet waste:	Wet garbage will be treated by using Organic waste converter machine.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge can be used as manure for plantation & gardening purposes inside the premise.
	Others if any:	E-Waste: handed over to authorized recyclers
Area requirement:	**Location(s):**	Basement 1
	Area for the storage of waste & other material:	30 m2
	Area for machinery:	45 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.13 Lakh
	O & M cost:	Rs.3.90 Lakh/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	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 :**	781 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	15 nos. to be planted + 4 nos. to be transplanted + 1 nos. to be retained
	List of proposed native trees :	Cocos nucifera; Azadirachta indica; Peltophorum pterocarpum; Termilania catappa; Saraca asoca; Neolamarckia cadamba; Bauhinia variegata; Cassia Fistula ; Lagerstroemia speciosa; Mangifera indica; Mimusops elengi
	Timeline for completion of plantation :	1-2 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cocos nucifera	Coconut	-	Fruit bearing tree
2	Azadirachta indica	Neem	-	Medicinal tree
3	Peltophorum pterocarpum	Copper Pod	-	It is deciduous tree growing 15-25m, it is widely grown in tropical regions as an ornamental tree
4	Termilania catappa	Badam	-	Terminalia catappa is a large tropical tree The tree grows to 35 m The fruit is edible, tasting slightly acidic.
5	Saraca asoca	Ashoka	-	The ashoka is a rain-forest tree Its flowering season is around February to April. The ashoka flowers come in heavy, lush bunches. They are bright orange-yellow in color, turning red before wilting.
6	Neolamarckia cadamba	Kadamba	-	kadam locally, is an evergreen, tropical tree native to South and Southeast Asia A fully mature kadam tree can reach up to 45 m (148 ft) in height. It is a large tree with a broad crown and straight cylindrical bole
7	Bauhinia variegata	Kanchana	-	Flowering plant It is a small to medium sized deciduous tree growing to 17 m tall and this flower extract is made from the gum of the bark and is used for medicinal purposes
8	Cassia Fistula	Bahava	-	Insect attracting tree
9	Mangifera indica	Mango	-	It is a large fruit-tree, capable of a growing to a height and crown width of about 100 feet and trunk circumference of more than twelve feet

10	Lagerstroemia speciosa	Taman	-	It is a large fruit-tree, capable of a growing to a height and crown width of about 100 feet and trunk circumference of more than twelve feet
11	Mimusops elengi	Bakul	-	Flowering tree.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Jaswand	-	-
2	Tulsi	-	-
3	Parijat	-	-
4	Safed Kachnar	-	-
5	Bougainvillea	-	-
6	Kanher	-	-
7	Candle bush	-	-
8	Raat rani	-	-
9	Tagar	-	-
10	Morvel	-	-
11	Vanjai	-	-
12	Clerodendrum	-	-
13	Anant	-	-
14	Bird of paradise	-	-
15	Ixora	-	-

47.Energy

Power requirement:	**Source of power supply :**	Brihanmumbai Electric Supply and Transport (BEST)
	During Construction Phase: (Demand Load)	1000 kW
	DG set as Power back-up during construction phase	500 kVA
	During Operation phase (Connected load):	11668 kW
	During Operation phase (Demand load):	5235 kW
	Transformer:	Wing A (Rehab redevelop):1 No. x 1000 kVA ; Residential Building (Sale) : 2 No. x 1250 kVA; Commercial Building (Sale): 2 No. x 1010 kVA ; School Building (Reservation Secondary School): 1 No. x 250 kVA
	DG set as Power back-up during operation phase:	Wing A (Rehab redevelop):1 No. x 315 kVA ; Residential Building (Sale):1 No. x 1250 kVA ;Commercial Building (Sale): 2 No. x 1010 kVA; School Building (Reservation Secondary School):1 No. x 125 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

The following Energy Conservation Methods are proposed in the project:
1. Use of energy efficient, BEE labeled electrical fixtures. Use of T5 tubes having 2.5 to 3 times life over conventional tubes and hence rate of disposal of tubes will be reduced drastically.
2. Energy efficient fluorescent tube lights & Light Emitting Diode (LED) lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. of fixtures.
3. LED lighting is complimentary in Residential as in day time, it is used effectively in night time in Common areas like staircase, area lighting.
4. Total % saving: 21%.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	1. Use of energy efficient, BEE labeled electrical fixtures. Use of T5 tubes having 2.5 to 3 times life over conventional tubes and hence rate of disposal of tubes will be reduced drastically. 2. Energy efficient fluorescent tube lights & Light Emitting Diode (LED) lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. of fixtures. 3. LED lighting is complimentary in Residential as in day time, it is used effectively in night time in Common are	21

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.48.70 Lakh
	O & M cost:	Rs.5 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	pH, Colour, odour, turbidity, Total hardness	3.60
2	Site Sanitation	Disinfection	5.00
3	Disinfection	Disinfection	3.45
4	Health Check up	Monthly	20.00
5	Safety Personal Protective Equipments	Safety jacket, Safety shoes, Helmet, Belt	6.45
6	Traffic Management	Construction & Maintenance of roads	3.00
7	Safety nets	-	3.50
8	Tyre cleaning and vehicle maintenance	Vehicle washing	1.50
9	Site fencing and Noise barriers	plantation of trees	5.50
10	Environmental Monitoring	Air, Water, Soil and Noise monitoring	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	Sewage Treatment Plant	4 Nos. of STP having total capacity 325 KLD	42.25	15.50
2	Solid Waste Management	Composting	13.00	3.90
3	Rain water Harvesting and Storm Water Management	Channelizing and maintenance of rain water harvesting	7.75	0.40
4	Landscape/Gardening	RG Area	3.09	0.55
5	Energy Conservation	Solar	48.70	5.00
6	Environment Monitoring	Air, Water, Soil and Noise Monitoring	15.00	2.40

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

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

52.Any Other Information

No Information Available

53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	4 no. of the junctions
Parking details:	**Number and area of basement:**	3 nos. of basements having total parking area of 13,738.65 m2
	Number and area of podia:	6 nos. of podiums having total parking area of 15,649.52 m2
	Total Parking area:	29,388.17 m2
	Area per car:	4-Wheeler car park: Basements- 46.83 m2, Podium floors- 31.63 m2 ,Public Transport (School Bus), open parking at ground- 28.12 m2 ; 2-Wheeler car park- 4.20 m2 (including circulation)
	Area per car:	4-Wheeler car park: Basements- 46.83 m2, Podium floors- 31.63 m2 ,Public Transport (School Bus), open parking at ground- 28.12 m2 ; 2-Wheeler car park- 4.20 m2 (including circulation)
	Number of 2-Wheelers as approved by competent authority:	191
	Number of 4-Wheelers as approved by competent authority:	764
	Public Transport:	2 nos.
	Width of all Internal roads (m):	6 m & 9 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8(a) B2 Category
	Court cases pending if any	Not Applicable
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Representative of PP was present during the meeting along with environmental consultant M/S. MahabalEnviro Engineers Pvt. Ltd.

PP informed that, the project previously considered in the 86th& 88thSEAC-2 meeting held on 28-29/1/2019 &11/2/2019 was deferred with observation to submit architect certificate regarding construction done on site, proof checkingof project designs from reputedinstitution such as IIT-Mumbai or VJTI.

Accordingly, PP submitted the proof checking reportof project designs from IIT-Mumbai which was taken on record.PP stated that, the total plot area of the project is 7810 Sq. mt. having total constructionarea 133814Sq. mt. (FSI - 56857 Sq. mt.+ NON FSI- 76957 Sq. mt.) and the buildingconfiguration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Reservation Secondary School (Building 3)	2 Basement + Ground + 6th floors	27.15
Sale (Building 2) (Residential building)	3 Basement + Ground + 1st to 7th Parking floors + 8th to 75th upper floors	281.60
Sale (Building 2A) (Commercial building)	3 Basement + Ground + 1st to 7th Parking floors + 8th to 7th upper floors	70.40
Wing A (Building 1) (Rehab redevelop)	1 Basement + Ground (shops) + Service floors + 1st to 19th Upper floors	69.10

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the

DECISION OF SEAC

After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.

Specific Conditions by SEAC:

2) PP to submit & upload the undertaking submitted to Mumbai Metro Rail Corporation Limited.
3) PP to ensure that the STP should be with ventilation of minimum 40% open to sky
4) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project or Environment Department may direct PP to undertake CER work in identified area, as identified by Environment Department

FINAL RECOMMENDATION

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

Agenda of 90th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 90 **Meeting Date** February 27, 2019

Subject: Environment Clearance for Application for Environmental Clearance

Is a Violation Case: No

1.Name of Project	RASIK RACHANA GREEN CITY
2.Type of institution	Private
3.Name of Project Proponent	M/s. R R Kalyankar Constructions Pvt. Ltd.
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	Integrated Township Project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey No. 41, Hissa No. 2, 3, 5, Survey No.42, Hissa No. 1A, 1B, 1C, 2, 4, 5, 6A, 7B, 8, 9, 10, 11, 12, 13A, 13B, 14, 15, Survey No. 43, Hissa No. 3A, 3B, 4, 5, Survey No.44 , Hissa No. 1A, 1B, 1C, 1D, 3, Survey No.45, Hissa No. 3A, 3B, Survey No.50, Hissa No.1(p), Survey No. 54, Hissa No. 1, 2, 3,4 , 5, 6, 7, 9, 10, 11, Survey No. 55, Hissa No.1, 2, 3(p), 4, 5, 6, 7, 8, 9, 10(p), 11, 12, 13 and Survey No. 60, Hissa No.1, village Shirse, Tal. Karjat, Dist- Raigad, State –Maharashtra.
9.Taluka	Karjat
10.Village	Shirse
Correspondence Name:	M/s. R R Kalyankar Constructions Pvt. Ltd.
Room Number:	803
Floor:	Not Applicable
Building Name:	Cosmos
Road/Street Name:	Sector 11
Locality:	CBD Belapur (E)
City:	Navi Mumbai
11.Area of the project	Joint Director / ADTP Raigad, Town Planning
12.IOD/IOA/Concession/Plan Approval Number	Letter of Intent (LOI) is also received from Office of Collector and District Magistrate, Alibaug District Raigad dt. 25.04.2017
	IOD/IOA/Concession/Plan Approval Number: Govt. of Maharashtra/LNA1(B)/460218/2017
	Approved Built-up Area: 798073.49
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received Location Clearance (LC) from Urban Development Department, Mantralaya on 11th September, 2014 in respect of an area which includes lands admeasuring about 46.94 Ha. Renewal of location clearance received dt. 3rd June, 2017. Letter of Intent (LOI) is also received from Office of Collector and District Magistrate, Alibaug District Raigad dt. 25.04.2017
15.Total Plot Area (sq. m.)	4, 69,454.81 Sq.mt.
16.Deductions	1,852.98 Sq.mt.
17.Net Plot area	4,67,601.83 Sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 7, 98,018.55 Sq. mt.
	b) Non FSI area (sq. m.): 3, 81,049.25 Sq.mt.
	c) Total BUA area (sq. m.): 1179067.80
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 7, 98,018.55 Sq. mt.
	Approved Non FSI area (sq. m.): 3, 81,049.25 Sq.mt.
	Date of Approval: 25-04-2017
19.Total ground coverage (m2)	1, 14,549.44 Sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24 %

21.Estimated cost of the project	18880000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Phase 1- Building No. 1	Ground + 5 Podia + 30 Upper Floors	102.60
2	Phase 1- Building No. 2	Ground + 5 Podia + 27 Upper Floors	94.05
3	Phase 1- Building No. 3	Ground + 4 Podia + 22 Upper Floors	77.70
4	Phase 1- Building No. 4	Ground + 2 Podia + 22 Upper Floors	66.00
5	Phase 1- Building No. 5	Ground + 2 Podia + 22 Upper Floors	65.55
6	Phase 1- Building No. 6	Ground + 3 Podia + 22 Upper Floors	74.10
7	Phase 1- Building No. 18	Ground + 2 Podia + 22 Upper Floors	68.40
8	Phase 1- Building No. 19	Ground + 2 Podia + 22 Upper Floors	68.40
9	Phase 1- Building No. 20	Ground + 2 Podia + 22 Upper Floors	68.40
10	Phase 1- Building No. 21	Ground + 3 Podia + 22 Upper Floors	71.25
11	Phase 1- Building No. 22	Ground + 3 Podia + 22 Upper Floors	71.25
12	Phase 1- Social Housing LIG 1	Ground + 3 Podia + 22 Upper floors	71.25
13	Phase 1- Social Housing LIG 2	Ground + 3 Podia + 22 Upper floors	71.25
14	Phase 1- Social Housing LIG 3	Ground + 4 Podia + 21 Upper floors	74.10
15	Phase 1- Commercial Centre 2	Lower Ground + Ground + 16 Upper Floor	56.85
16	Phase 1 - Social Housing Community Centre	--	--
17	Phase 1- Commercial Centre 2	1 Building: Lower Ground + Ground + 16 Upper Floor	56.85
18	Phase 1- School 1	Ground+ 6 Upper Floors	25.65
19	Phase 1- Police Station	Ground Floors	3.3
20	Phase 1- Fire Station 1	Ground + 1 Floor	6.60
21	Phase 1 - Auto & Bus Depot. 1	Ground Floor	--
22	Phase 1 - Open Market 1, 2 & 5	Ground Floor	--
23	Phase 1 - Multi-level Parking Lot	Ground + 5 Upper Floors	17.40
24	Phase 1 - Security Cabin	Ground Floor	--
25	Phase 1 - City Management Office	Ground + 1 Floor	6.60
26	Phase 2 - Building No. 7	Ground + 3 Podia + 30 Upper Floors	96.90
27	Phase 2 - Building No. 8	Ground + 3 Podia + 28 Upper Floors	91.20

28	Phase 2 - Building No. 9	Ground + 2 Podia + 22 Upper Floors	65.55
29	Phase 2 - Building No. 10	Ground + 4 Podia + 22 Upper Floors	71.25
30	Phase 2 - Club House	Ground + 4 Floors	18.60
31	Phase 2 - Villa Type A	Ground + 1 Floor	7.20
32	Phase 2 - Villa Type B1	Lower Ground + Ground	7.20
33	Phase 2 - Villa Type C	Ground + 1 Floor	7.20
34	Phase 2 - Hospital	Ground + 7 Upper Floors	26.55
35	Phase 2 - Economical Weaker Section (EWS) scheme	Ground + 2 Podia + 21 Upper Floors	74.10
36	Phase 2 - School 2	Ground + 3 Floors	15.15
37	Phase 2 - Open Market 4	Ground Floor	--
38	Phase 2 - Temple	Ground Floor	--
39	Phase 3 - Building No.11	Ground + 4 Podia + 30 Upper Floors	91.20
40	Phase 3 - Building No.12	Ground + 4 Podia + 22 Upper Floors	76.95
41	Phase 3 - Building No.13	Ground + 4 Podia + 30 Upper Floors	88.25
42	Phase 3 - Building No.14	Ground + 5 Podia + 22 Upper Floors	79.80
43	Phase 3 - Villa Type B1	Lower Ground + Ground	7.20
44	Phase 3 - Villa Type C	Ground + 1 Floor	7.20
45	Phase 3 - Community Centre	Lower Ground + Ground + 14 Upper Floors	56.35
46	Phase 3 - Open Market 3	Ground Floor	--
47	Phase 4 - Building No.15	Ground + 6 Podia + 28 Upper Floors	99.75
48	Phase 4 - Building No.16	Ground + 4 Podia + 22 Upper Floors	65.55
49	Phase 4 - Building No.17	Ground + 3 Podia + 28 Upper Floors	82.65
50	Phase 4 - Villa Type B2	Lower Ground 2+ Lower Ground 1 + Ground	10.80
51	Phase 4 - Villa Type B1	Lower Ground + Ground	7.20
52	Phase 4 - Villa Type D	Ground + 1 Floor	7.20
53	Phase 4 - Villa Type B	Ground + 1 Floor	7.20
54	Phase 3 - Commercial Centre 3	Ground + 6 Upper Floors	23.00
55	Phase 3 - Commercial Centre 4	Ground Floor	3.6
56	Phase 4 - Auto & Bus Depot. 2	Ground Floor	--
57	Phase 5- Commercial Centre 1	Ground + 27 Upper Floors	87.60
58	Phase 5- Commercial Centre 5	Ground Floor	--
59	Phase 5-Villa Type A & B	Ground + 1Floor	7.20
60	Phase 5-Villa Type B2	Lower Ground 2+ Lower Ground 1+ Ground	10.80
61	Phase 5-Villa Type D	Ground + 1 Floor	7.20
62	Phase 5-Indoor Studio	Ground + 3 Floors	18.60

63	Phase 5-Resort	Lower Ground + Ground + 5 Upper Floors	22.20
64	Phase 5-Villa Cottage	Ground Floor	10.8
65	Phase 5-Deluxe Cottage	Ground Floor	6.3
66	Phase 5-SPA & Gym	Ground + 1 Floor	6.00
67	Phase 5-Fire Station 2	Ground Floor	6.6
68	Phase 5-Open Market 6	Ground Floor	--

23.Number of tenants and shops	Residential Flats - 10500 Nos., Shops - 367 Nos., Villa - 155 Nos., EWS Flats - 352 Nos., LIG Flats - 776 Nos., Social Housing Community Center, Community Center, Commercial Center - 5 Nos. (Departmental Store & Offices), School - 2 Nos., Hospital, Police Station, Auto & Bus Depot - 2 Nos., Open Market - 6 Nos., Multilevel Parking lot, Fire Station - 2 Nos., City management office, Club House, Indoor Studio, Resort, Cottage, Spa & Gym.
24.Number of expected residents / users	93125 Nos.
25.Tenant density per hectare	268 / 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)	Existing 18.00 mt. wide Karjat-Kondiwade road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 mt.
29.Existing structure (s) if any	The site is an open land except few existing structures like dilapidated farm house (Ground floor structure along with outhouse shed and security cabin)
30.Details of the demolition with disposal (If applicable)	Demolition debris shall be partly recycled for backfilling and partly handed over to recyclers.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Maharashtra Jeevan Pradhikaran (MJP) / Tanker Water of potable quality
	Fresh water (CMD):	5261 KLD
	Recycled water - Flushing (CMD):	2946 KLD
	Recycled water - Gardening (CMD):	455 KLD
	Swimming pool make up (Cum):	32 KLD
	Total Water Requirement (CMD) :	8694 KLD
	Fire fighting - Underground water tank(CMD):	8000 KL
	Fire fighting - Overhead water tank(CMD):	4545 KL
	Excess treated water	3038 KLD
Wet season:	**Source of water**	Maharashtra Jeevan Pradhikaran (MJP) / Tanker Waterof potable quality
	Fresh water (CMD):	5261 KLD (From MJP : 4910 + From RWH tanks : 351)
	Recycled water - Flushing (CMD):	2946 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	32 KLD
	Total Water Requirement (CMD) :	8239 KLD
	Fire fighting - Underground water tank(CMD):	8000 KL
	Fire fighting - Overhead water tank(CMD):	4545 KL
	Excess treated water	3493 KLD
Details of Swimming pool (If any)	Swimming pool volume - 2255 m3	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10 mt. – 15 mt. below ground level
	Size and no of RWH tank(s) and Quantity:	5 RWH tanks of total capacity 1765 KL and provision of water pond of capacity 10656 KL
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	Rs. 830 .00 Lacs
	Budgetary allocation (O & M cost) :	Rs. 34.27 Lacs/annum
	Details of UGT tanks if any :	Location(s) of the UGT tank(s): Underground
35.Storm water drainage	**Natural water drainage pattern:**	In a present scenario overland runoff from the plot is disposed into an existing natural stream passing parallel to the South side of the plot. It is proposed to collect overland flow and sub plots runoff into road side drains. Runoff from the road side drains is proposed to be disposed into an existing natural stream.
	Quantity of storm water:	Total runoff contributing from plot after development: 12.53 m3/sec
	Size of SWD:	14.73 m3/sec
Sewage and Waste water	**Sewage generation in KLD:**	7155 KLD
	STP technology:	MBBR (Moving Bed Bio Reactor) technology followed by Phytoroid Technology
	Capacity of STP (CMD):	Total 12 STP of total capacity 7835 KL
	Location & area of the STP:	Underground
	Budgetary allocation (Capital cost):	Rs. 1866.35 Lacs
	Budgetary allocation (O & M cost):	Rs. 341.26 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated material will be fully reused on site for backfilling purpose and therefore cut-fill is balanced. Storage will be done in adjacent earmarked playground in each phase.
	Disposal of the construction waste debris:	Construction waste material shall be partly recycled and remaining shall be disposed to the authorized land fill site with permission of local authority
Waste generation in the operation Phase:	**Dry waste:**	16388 kg/day
	Wet waste:	10925 kg/day
	Hazardous waste:	--
	Biomedical waste (If applicable):	56.3 Kg/day
	STP Sludge (Dry sludge):	1073 Kg/day
	Others if any:	E – waste (Kg/annum): 12133

Mode of Disposal of waste:	**Dry waste:**	Shall be handed over to an Agency named as Thane Waste-Tech & Recyclers Private Limited
	Wet waste:	Treatment in Biomethanation Plant
	Hazardous waste:	--
	Biomedical waste (If applicable):	Disposal as per Bio-Medical Waste Management Rules, 2016
	STP Sludge (Dry sludge):	As manure
	Others if any:	E - waste: To authorized recyclers
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	2563 Sq.mt.
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 788.00 Lacs (Cost for treatment of biodegradable garbage)
	O & M cost:	Rs. 15.36 Lacs/annum (Cost for treatment of biodegradable garbage)

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	--	--	--	--	--	--

40.Details of Fuel to be used

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

41.Source of Fuel	--
42.Mode of Transportation of fuel to site	--

43.Green Belt Development	**Total RG area :**	59106.21 sq.mt.
	No of trees to be cut :	320 Nos.
	Number of trees to be planted :	6300 Nos.
	List of proposed native trees :	As mentioned below
	Timeline for completion of plantation :	Before occupancy

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shirish	415	Shady tree, yellowish green fragrant flowers, fast growing tree, soil moisture remains high under lebbek as it provides dense canopy
2	Neolamarckia cadamba	Kadamba	425	It is a quick growing , large traffic like spreading branches, its fragment orange flowers attracts pollinators, it helps in improving physical and chemical properties of soil, Shady, large tree, ball shaped flowers. It acquires profitable medicinal and commercial properties
3	Pongamia pinnata	Karanj	180	It has large canopy which spreads equally wide, It has potential to grow in salt water soil, drought-tolerant
4	Ficus amplissima	Pipar	195	It is evergreen tree with a widely spreading crown. The tree is sometimes harvested from the wild for its wood.
5	Azadirachta indica	Neem tree	195	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation
6	Albizia procera	Kawath/Wood Apple	310	It is a large, fast-growing tree with an open canopy that is almost evergreen but becomes leafless for a short time in the dry season. Harvested for timber also it is an ornamental tree
7	Oroxylum indicum	Tetu Tree	420	An ornamental for its strange appearance. The flowers are reddish- purple outside and pale, spinkish -yellow within, numerous, in large erect racemes. The fruits are flat capsules
8	Mimusops elengi	Bakul	250	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.

9	Madhuca longifolia	Moha	240	It is a fast-growing tree that grows to approximately 20 meters in height, possesses evergreen or semi-evergreen foliage.
10	Delonix regia	Gulmohar	730	Grown as an ornamental tree,Shady trees, orange-red petals attracts birds and petals. It is planted as an ornamental tree.
11	Millingtonia hortensis	The Indian cork tree	250	It grows upto18 to 25 m high and leaves upto 40 years. It grows well in various soil types. White pleasant fragrant flowers. Birds fed on its fruit.
12	Erythrina variegata	Indian coral tree	301	It is a drought resistant tree. Flowers are pollinated by birds.
13	Schizolobium parahyba	Guapuruvu tree	50	A magnificent, fast growing ornamental normally tall tree.
14	Cassia fistula	Amaltas/Golden Shower Tree	90	Is widely grown as an ornamental plant. Growth for this tree is best in full sun on well-drained soil; it is relatively drought tolerant and slightly salt tolerant. It attracts bees and butterflies for pollination.
15	Jjacaranda mimosifolia	Neeli gulmohar	230	The Jacarandas are impressive trees in May when covered with clusters of blue tubular flowers. The ground below them turns rapidly blue, and some gardeners might object to that quantity of litter.
16	Terminalia elliptica	Ain	100	The wood is used for furniture, cabinetwork, joinery, paneling, specialty items, boat-building, railroad cross-ties (treated), and decorative veneers.
17	Pterocarpus marsupium	Bija	120	Parts of the Indian kino (heartwood, leaves, flowers) have long been believed to have medicinal properties in Ayurveda
18	Catalpa bignonioides	Indian bean tree	100	Indian Bean Tree is a medium-sized deciduous tree growing up to 15-18 m tall. The bright green leaves appear late and as they are full grown before the flower clusters open, add much to the beauty of the blossoming tree
19	Ficus microcarpa	Nandruk	305	Evergreen tree to 15 m (50 ft) or more in height, with a rounded dense crown, smooth gray bark, milky sap, and long, thin, dangling aerial roots. Fast-growing, able to survive in little or no soil when young; seedlings and saplings found in rain gutters, building crevices, sidewalk cracks, and on rocks Planted as ornamental

20	Mimusops elengi	Bakul	175	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.
21	Eucalyptus globulus	Eucalyptus	165	Evergreen tree grows upto 60 mt. Its flowers attracts insects, birds & bats. All parts of its used to prepare dyes. Its wood is used to prepare musical instruments. Possess medicinal properties
22	Sapindus laurifolius	Ritha/Indian Soapberry	175	Soapnut large tree, it is popular as a traditional washing soap
23	Buchnania Cochinchinesis	Charoli	175	It is a deciduous tree which produces seeds edible by humans. It is known as charoli. These almond - flavored seeds are used as a cooking spice primarily in India
24	Butea monosperma	Flame of the forest	150	Bright orange-red flowers, it is used for timber, resin, fodder, medicine, and dye, he wood is dirty white and soft and, being durable under water, is used for well-curbs and water scoops. Good charcoal can be made from it.
25	Tabebuia impetiginosa	Pink trumpet tree	185	It is evergreen trees with silvery foliage and deeply furrowed, silvery bark on picturesque, contorted branches and trunk. It is highly drought tolerance.
26	Garcinia indica	Kokam Tree	180	Health benefits of include its ability to reduce allergic reactions, optimize digestion, protect the skin, boost the immune system, and relieve pain. The most important health benefits its ability to speed wound healing, prevent chronic disease, reduce allergic reactions
27	Lagerstroemia speciosa	Pride of India	32	Small to medium sized deciduous tree. Leaves opposite, narrowly elliptic, young leaves pubescent beneath, mature leaves glabrous on both sides. Flowers white, fragrant in terminal panicles
28	Saraca asoca	Sita Ashok	30	It is small evergreen tree
29	Caesalpinia pulcherrima	Son chafa	30	large evergreen tree,fragrant flowers,timber used in woodworking
30	Cochlospermum religiosum	Yellow silk cotton tree	35	A large deciduous tree
31	Syzygium cumini	Jamun	30	associated with many health and medicinal benefits. The black plum is known to relieve stomach pain, carminative, anti-scorbutic and diuretic
32	Dalbergia sissoo	Indian rose wood	32	deciduous or nearly evergreen tree, important commercial timber.

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)	--
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	44215 KW
	During Operation phase (Demand load):	26528 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	12 DG sets of 400 kVA each, 8 DG sets of 500 kVA each, 1 DG set of 100 kVA, 3 DG sets of 400 kVA each, 1DG set of 250 kVA, 7 DG sets of 500 kVA each, 2 DG sets of 400 kVA each, 6 DG sets of 500 kVA each, 1 DG set of 250 kVA, 5 DG sets of 500 kVA each, 1 DG set of 250 kVA, 1 DG set of 50 KVA , 1 DG set of 250 kVA, 12 DG sets of 600 KVA each, 1 DG sets of 62.5 KVA, 5 DG sets of 400 kVA each, 1 DG set of 150 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

- Provision of Solar PV Panels (to cater 1 % of demand load)
- Provision of solar water heating system to cater 20 % of hot water demand
- Street area lights based on Biogas generator
- Provision of LED lights and other conventional energy saving measures.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy saving	Phase 1: 24%, Phase 2: 27%, Phase 3 : 24%, Phase 4: 23%, Phase 5: 23 %
2	Saving due to renewable energy	Phase 1 : 8%, Phase 2 : 7%, Phase 3 : 8%, Phase 4: 8%, Phase 5: 1%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 568.43 Lacs (Solar system)
	O & M cost:	Rs. 16.87 Lacs/annum (Solar system)

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust suppression	56.16
2	Air Environment- Air and Noise quality	Sensors for Air quality & Noise level monitoring	16.50
3	Air Environment- Air and Noise quality	By outside MoEF & CC Approved Laboratory & EMP for batching Plant	8.58
4	Air Environment	EMP for Batching plant	1.61
5	Water Environment	Drinking water analysis	0.39
6	Land Environment	Site Sanitation	10.00
7	Health & Hygiene	Disinfection- Pest Control	15.60
8	Health & Hygiene	First Aid Facility	0.15
9	Health & Hygiene	Health-check-up of workers	117.00
10	Cost towards disaster management	--	565.54

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	AIR AND NOISE ENVIRONMENT- Cost for plantation	77701.62 Sq.mt. of RG area on ground & podium	427.36	6.00
2	AIR AND NOISE ENVIRONMENT- Cost for Ambient air & Noise Monitoring	On site sensors	No set up cost is involved as already considered Construction Phase	0.50
3	AIR AND NOISE ENVIRONMENT- Cost for Ambient air & Noise Monitoring	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.33
4	Cost for DG Stack Exhaust Monitoring	37 nos. of stacks	No set up cost is involved	0.89
5	WATER ENVIRONMENT-Cost for Waste water Monitoring	Cost for Sewage Treatment Plant	1381.85	303.94
6	WATER ENVIRONMENT- Cost for Waste water Monitoring	Cost for Phytorid Technology	36.50	6.00
7	WATER ENVIRONMENT- Cost for Waste water Monitoring	Cost for holding pond for treated sewage	200.00	12.00

8	WATER ENVIRONMENT - Cost for Waste water Monitoring	Cost for pipeline from STP to holding pond	20.00	3.00
9	WATER ENVIRONMENT- Cost for Waste water Monitoring	Cost for pipeline from holding pond to Places identified by KMC	At actual	--
10	WATER ENVIRONMENT- Cost for Waste water Monitoring	Cost for Phytorid Technology	36.50	6.00
11	WATER ENVIRONMENT- Cost for Waste water Monitoring	Cost for ETP for Hospital	12.00	4.00
12	WATER ENVIRONMENT - Cost for waste water treatment	On site sensors	216.00	12.00
13	WATER ENVIRONMENT- Cost for waste water treatment	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.32
14	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System	Cost for RWH tanks	200.00	3.00
15	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System	Cost for treatment unit for Rain Water collected in tanks	30.00	6.00
16	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System	Cost for RWH pond	550.00	15.00
17	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System	Cost for treatment unit for Rain Water collected in pond	50.00	10.00
18	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.27
19	LAND ENVIRONMENT- Solid Waste Management	Cost for Treatment of biodegradable garbage in Biogas Plant	788.00	15.36
20	ENERGY CONSERVATION - Use of renewable energy	Solar PV panels and Water heating system	568.43	16.87
21	Cost towards Disaster management	--	7685.00	336.50

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:	Three entry & exit
Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Number of podia : As mentioned in the project proposal
	Total Parking area:	302105.49 Sq.mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	2W - 35030 Nos., Cycle - 35580 Nos.
	Number of 4-Wheelers as approved by competent authority:	5655 Nos.
	Public Transport:	Bus: 17 Nos, Auto: 15 Nos., Ambulance: 2 Nos
	Width of all Internal roads (m):	minimum 6.00mt.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Project site is located at Shirse village which is not listed under ESA of Matheran as per notification dt. 04.02.2003 and amended notification dt. 16.04.2004. But details of nearest boundary of Eco sensitive zone of Matheran at Bhisegaon: Approx. 2.00 Km
	Category as per schedule of EIA Notification sheet	Category 8 (b) B1
	Court cases pending if any	Not Applicable
	Other Relevant Informations	--

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	24-01-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

Representative of PP was present during the meeting along with environmental consultant M/s. Ultra-Tech.

PP informed that, the project under consideration is Integrated Township Project.The total plot area of the project is 4, 69,454.81 Sq. mt. having total construction area 11,79,067.80Sq. mt. (FSI-7,98,018.55Sq.mt.+NON FSI- 3,81,049.25 Sq. mt.) PP further informed that the proposal was considered previously in 77th, 86th& 87th SEAC-2 meeting held on 16/11/2018, 28-29/1/2019 & 7/2/2019. In the 87th meeting, observationswere made after deliberation-

1. As agreed by PP KarjatKondiwade road which is access road, be constructed to 18mt wide before applying for CC. Local body to ensure the same before issuing the CC to the project.
2. PP agreed to provide, cycle tracks for all 12 mt or more wide roads.
3. PP agreed to keep major natural nalla drains as it is (virgin).
4. No discharge including treated water, from project into Ulhas River. PP agreed to this and requested time to submit detail plan for utilizing this excess treated water including laying down sewer line to nearest discharge point in consultation with local body.
5. PP to submit NoC for drinking water from MJP.
6. PP to submit detail plan for plantation including top soil provision
7. PP to submit the details of water treatment plant depending on quality of intake water.

PP submitted point wise compliance, which was taken on record and decided to discuss later after deliberating the EIA report. PP submitted the EIA report for the project. ***Strom water management, Socio-economic, Energy, traffic***these chapters were discussed in detail.

DECISION OF SEAC

As the appraisal of EIA report completed***, committee decided to consider the project in upcoming SEAC meetings for compliance points of*** 77th, 86th& 87th SEAC-2 meeting held on 16/11/2018, 28-29/1/2019 & 7/2/2019. ***The proposal is deferred accordingly.***

Specific Conditions by SEAC:

5) PP to earmark the major nalla artery which will be retain on site.
6) PP to ensure that nalla should not be diverted or closed. PP to ensure that proposed culverts on nalla should be in consultation with irrigation department.
7) PP to submit the plan for domestic water treatment which will be provided to labour during construction phase.
8) PP stated that, they will provide private bus services for residents of township. PP to explore the more major stops like market, school etc for bus stops apart from Karjat station.
9) PP to submit the fire NoC.
10) Committee noted that, there is no heat island effect or negative shadow effect in the project. But PP to ensure that there will be proper ventilation & air circulation in parking area
11) PP to ensure that school building should be as per RTE Act.
12) PP to provide the noise mitigation measures to the school building.
13) PP to submit the consolidated statement for energy saving including renewable energy.

FINAL RECOMMENDATION

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

Agenda of 90th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 90 **Meeting Date** February 27, 2019

Subject: Environment Clearance for "Boomrang" Commercial Development Project at CTS No. 4A & 4B Of Village Saki on Chandivali Farm Road, Chandivali, Mumbai

Is a Violation Case: No

1.Name of Project	"Boomrang"
2.Type of institution	Private
3.Name of Project Proponent	M/s. Kanakia Spaces Realty Pvt. Ltd.
4.Name of Consultant	Project Proponent
5.Type of project	Commercial Development
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	The project has received Environmental Clearance dt 01.08.2007 form MoEF, New Delhi.
8.Location of the project	CTS No. 4A & 4B Of Village Saki on Chandivali Farm Road, Chandivali, Mumbai–400066.
9.Taluka	Kurla
10.Village	Saki
Correspondence Name:	M/s. Kanakia Spaces Realty Pvt.Ltd.
Room Number:	--
Floor:	10th Floor
Building Name:	215 Atrium
Road/Street Name:	Andheri Kurla Road
Locality:	Next to Courtyard Marriott Hotel ,Opp. Divine Child High School, Andheri (East),
City:	Mumbai – 400093
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M)
12.IOD/IOA/Concession/Plan Approval Number	IOD dt. 04.08.2007, CC dt. 20.10.2007, OC dt. 05/05/2016
	IOD/IOA/Concession/Plan Approval Number: CE/4059/BPES/AL
	Approved Built-up Area: 127255.47
13.Note on the initiated work (If applicable)	Received EC on 01.08.2007 (for Total Plot area 33400.00 Sq.mt. & Total Construction Built-up area of 119451.28 Sq. mt.) for one commercial building with 2 basement + Gr + 7 upper floors; on the basis of conceptual plans as per prevailing practice then. ? Changes in actual construction done on site w.r.t. conceptual plan (on which EC was received) due to the requirement of local planning authority for which we have received approvals from MCGM time to time. ? Construction completed in March, 2016 and full occupation certificate is received on May, 2016 by MCGM. ? The construction built-up area on site is 1,27,255.47 sq. mt. for a building with 2 basement + Gr + 8 upper floors ? Consent to Operate from MPCB is obtained and it is valid upto 31.10.2019. ? We would also like to clarify that the parking lot regulation and amenity designation was not recognized in the year 2007 hence not mentioned in the application submitted/ EC received. The reasons are as follows : ? Plot was under industrial zone and residential user permitted in the plot with the condition of 7.5 % amenity plot to be handed over to the MCGM. ? Subsequently MCGM has designated 7.5 % amenity into parking lot and further parking lot structure under DCR 33/24 as a composite building. ? Entire amenity plot along with the structure as mentioned is handed over to MCGM and mutation entry as owner is appeared in the PR card and the total built-up area constructed for parking lot 13367.0 Sq. mt. is not incorporated in the EC.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	The property was under industrial zone and was converted into residential zone. ? Due to the conversion, 7.5% amenity was proposed to be handed over to the corporation free of cost as per the terms & conditions of I to R. ? Subsequently MCGM had given the development permission for making parking lot on the said amenity plot. ? As per DC regulation 33/24 additional parking plot area was also added built-up area on the same amenity plot with the extended plot area. ? Parking LOI vide letter no. Ch. E./26/S/Rds. & Tr. Dated 11.06.2013 and Ch. E./177/ MC/Rds. & Tr./ E-4 dated 21th November 2014 was received for the built-up area 13367.10 Sq. mt. ? Parking lot built-up area does not considered in this EC since the MCGM is the owner of parking lot plot and building with the separate entry & exit
15.Total Plot Area (sq. m.)	32831.90 Sq. mt.
16.Deductions	3494.02 Sq. mt

17.Net Plot area	29337.88 Sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 65968.88
	b) Non FSI area (sq. m.): 61286.59
	c) Total BUA area (sq. m.): 127255.47
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 65968.88
	Approved Non FSI area (sq. m.): 61286.59
	Date of Approval: 05-05-2016
19.Total ground coverage (m2)	10858.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	37
21.Estimated cost of the project	4996500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Commercial Building	Lower Basement + Upper basement + Ground + 8 Floor	34.80
2	Club House	Ground + 1 Floor	7.20

23.Number of tenants and shops	--
24.Number of expected residents / users	9100 Nos.
25.Tenant density 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)	18.30 mt. wide Chandivali Farm Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	10.00 mt.
29.Existing structure (s) if any	One commercial building & Club house is constructed on site.
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**	M.C.G.M/ Tanker Water of Potable Quality
	Fresh water (CMD):	Domestic: 218 KLD
	Recycled water - Flushing (CMD):	277 KLD (Flushing: 177 + Cooling tower makeup:100)
	Recycled water - Gardening (CMD):	32 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	527 KLD
	Fire fighting - Underground water tank(CMD):	200 KL
	Fire fighting - Overhead water tank(CMD):	75 KL
	Excess treated water	45 KLD
Wet season:	**Source of water**	M.C.G.M/ Tanker Water of Potable Quality
	Fresh water (CMD):	Domestic: 218 KLD
	Recycled water - Flushing (CMD):	277 KLD (Flushing: 177 + Cooling tower makeup:100)
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	495 KLD
	Fire fighting - Underground water tank(CMD):	200 KL
	Fire fighting - Overhead water tank(CMD):	75 KL
	Excess treated water	77 KLD
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	At depth of 0.75 mt. and 1.00 mt. below ground.
	Size and no of RWH tank(s) and Quantity:	1 RWH tank of 120 KL capacity
	Location of the RWH tank(s):	Basement level
	Quantity of recharge pits:	18 Nos.
	Size of recharge pits :	4.0 mt. x 4.0 mt. x 4.0 mt. Depth. (16 Nos.) and 10 mt. x 1.2 mt. x 2.0 mt. Depth (2 Nos.)
	Budgetary allocation (Capital cost) :	Recharge Pit: Rs. 63.00 Lacs RWH Tank: Rs. 18.00 Lacs
	Budgetary allocation (O & M cost) :	Recharge Pit: Rs. 3.15 Lacs/annum RWH Tank: Rs. 0.90 Lacs/annum
	Details of UGT tanks if any :	Location: Basement level
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged in to the municipal SWD.
	Quantity of storm water:	0.72 m3/sec
	Size of SWD:	600mm wide X 600mm depth with slope 1:450
Sewage and Waste water	**Sewage generation in KLD:**	373 KLD
	STP technology:	MBBR (Moving Bed Bio Reactor)
	Capacity of STP (CMD):	1 STP of 430 KL
	Location & area of the STP:	Location: Basement level (Area: 288 Sq. mt.)
	Budgetary allocation (Capital cost):	Rs. 41.00 Lacs
	Budgetary allocation (O & M cost):	Rs. 7.70 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Not Applicable
	Disposal of the construction waste debris:	Construction waste has been partly reused on the site and partly has been disposed to the authorized landfill site.
Waste generation in the operation Phase:	**Dry waste:**	500 Kg/day
	Wet waste:	800 Kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	56 kg/day
	Others if any:	--

Mode of Disposal of waste:	**Dry waste:**	To MCGM
	Wet waste:	Composting in organic waste convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Basement
	Area for the storage of waste & other material:	112 Sq. mt.
	Area for machinery:	12 Sq. mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 12.00 Lacs
	O & M cost:	Rs. 3.35 Lacs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set	--	GPX: 4 Nos. Kanakia: 3 Nos.	48.83 Mtr.	500 mm	850 0C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	GPL: 50 KL Kanakia: 2970 Liter (990 Liter for each DG)	Nil	2970 Liter

41.Source of Fuel	--
42.Mode of Transportation of fuel to site	--

43.Green Belt Development	**Total RG area :**	10604.58 Sq. mt.
	No of trees to be cut :	Trees already cut: 55 Nos.
	Number of trees to be planted :	Trees already planted on site: 661 nos.
	List of proposed native trees :	As shown 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	Saraca asoca	Ashoka	231	Small, erect evergreen tree, with deep green leaves growing in dense clusters. Beautiful foliage and fragrant flowers
2	Grevillea robusta	Silver Oak	197	Shady Flowering Tree
3	Khaya senegalensis	Khaya (Mahagony)	200	Ornamental Tree used in road side Plantation
4	Lagerstroemia speciosa	Tamhan	13	Shady Tree used in roadside plantation
5	Plumeria alba	Chafa	5	Small Flowering Tree
6	Arecaceae Sp.	Palm	15	Large Tree Used in Landscaping
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 :**	TATA Power
	During Construction Phase: (Demand Load)	--
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	16947 kW
	During Operation phase (Demand load):	9500 kW
	Transformer:	GPX: 4 x 2250 kVA Kanakia: 2 x 2500 kVA & 3 x 1500 kVA
	DG set as Power back-up during operation phase:	GPX: 4 Nos. of 2250 KVA each Kanakia: 3 Nos. of 2000 KVA each
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

- Provision of Energy efficient LED
- VFD (Variable speed Drive) for elevators
- Use of high efficiency pumps for Plumbing, Firefighting system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy saving	12.6 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	STP of Capacity 430 KL Capacity	--
Wet Waste	OWC	--

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	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	AIR & NOISE ENVIRONMENT - Ambient Air quality & Noise Monitoring	By outside MoEF & CC Approved Laboratory	*No set up cost is involved	0.22
2	AIR & NOISE ENVIRONMENT - Cost for DG Stack Exhaust Monitoring	07 no. of stack	*No set up cost is involved	0.34
3	AIR & NOISE ENVIRONMENT - Cost for Plantation	RG area	58.33	1.20
4	WATER ENVIRONMENT - Waste water treatment	Cost for sewage Treatment Plant	41.00	7.70
5	WATER ENVIRONMENT - Cost for waste water Monitoring	By outside MoEF & CC Approved Laboratory	*No set up cost is involved	0.03
6	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost For RWH Pit	63.00	3.15
7	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for RWH tank	18.00	0.90
8	LAND ENVIRONMENT - Solid Waste Management	Cost for Treatment of biodegradable garbage in OWC	12.00	3.35
9	LAND ENVIRONMENT - Solid Waste Management	Environmental Monitoring	*No set up cost is involved	0.08
10	DMP	--	3.74 Cr	0.19

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Site is well connected to Chandivali farm road

Parking details:	**Number and area of basement:**	2 Basements (Area: 37534.00 Sq. mt.)
	Number and area of podia:	Not Applicable
	Total Parking area:	32296.69 Sq. mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	682 Nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6.0 mt.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	Not Applicable
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Representative of PP was present during the meeting along with environmental consultant M/s. Ultra-tech.

PP stated that, they have received EC from MoEF & CC vide letter dated 01.08.2007 (for Total Plot area 33400.00 Sq.mt. & Total Construction Built-up area of 119451.28 Sq. mt.) for one commercial building with 2 basement + Gr + 7 upper floors; on the basis of conceptual plans as per prevailing practice at that time PP further stated that, the construction completed in March, 2016 and full occupation certificate is received in May, 2016 from MCGM. PP informed that, the construction built-up area on site is 1,27,255.47 sq. mt. for building with 2 basement + Gr + 8 upper floors. PP stated that, construction completed in March, 2016 and full occupation certificate is received in May, 2016 from MCGM.

DECISION OF SEAC

During meeting PP requested time to submit his say on the proposal, Committee agreed to this & hence,the proposal is deferred

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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