Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Expansion of star category Hotel project at CST no. 71/A, village Paspoli, Saki Vihar Road, Powai

Is a Violation Case: No

1.Name of Project	Expansion of star category Hotel at CST no. 71/A, village Paspoli, Saki Vihar Road, Powai
2.Type of institution	Private
3.Name of Project Proponent	M/s Chalet Hotel Ltd. Raheja Tower ,Plot No C-30, G Block , Opp SIDBI, near Bank of Baroda, BKC, 400051
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd. Mr. H. K Desai B-1003,Enviro House, 10th floor, Western Edge -II Western Express Highway, Borivali (E), Mumbai- 400 066 hkdesai5@gmail.com,; info@eaepl.com
5.Type of project	Star category Hotel
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion of Existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC letter no. No. 21-228/2007-IA.III dated December 24, 2007.
8.Location of the project	CST no. 71/A, village Paspoli, Saki Vihar Road, Powai
9.Taluka	mumbai
10.Village	powai
Correspondence Name:	Mr. Amit Mehrotra
Room Number:	-
Floor:	6th floor
Building Name:	Raheja Tower
Road/Street Name:	Raheja Tower ,Plot No C-30, G Block , Opp SIDBI, near Bank of Baroda, BKC,
Locality:	BKC
City:	Mumbai
11.Area of the project	MCGM (Municipal Corporation of Greater Mumbai)
12.IOD/IOA/Concession/Plan Approval Number	We have received IOD as per item no. 11 below however we will apply for amended IOD to MCGM .
	IOD/IOA/Concession/Plan Approval Number: Building No 3 CE/857/BPWS/AS dated 10/12/2012 , Building No 4 CE/1009/BPES/AS 28/09/2012
	Approved Built-up Area: 67213.64
13.Note on the initiated work (If applicable)	Building no 1 and part of building no 2 already existed on site prior to MoEF notification 07.07.2004. Additional four floor over existing building no 2 and work up to plinth level for building no 3 have been constructed on site as per EC dated 24th December, 2007 received.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	OC received for building No 1 dated 20th may 2000 OC received for building No 2 dated 11th march 2008
15.Total Plot Area (sq. m.)	60,888.62
16.Deductions	9133.29
17.Net Plot area	51,616.31
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 108467.80
	b) Non FSI area (sq. m.): 120985.86
	c) Total BUA area (sq. m.): 229453.66
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 67213.64
	Approved Non FSI area (sq. m.): .
	Date of Approval: 10-12-2012
19.Total ground coverage (m2)	28,761.89
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	47.24%

21.Estimated cost of the project	6020000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Hotel Building No.:02	The extension of 4 floor over existing building as per EC dated 24th December, 2007 has been completed and complied with. No further extension is required for this building.	69.75
2	Hotel Building No.:03	Lower Basements + Upper Basement + Mid Upper Basement + Ground + 9 Podium + Service floor + Fire check +19 Typical Floors	111.2
3	Hotel Building No.:04	2 Basements + Ground + 5 Podium + Amenity Floor+ service floor + Fire check floor +14 Typical Floors	84.6

23.Number of tenants and shops	Banquets=750 sqm (2 Nos.) Restaurants= 502 sqm (1 Nos.) Hotel Rooms =325 nos (Building 03) 176 nos (Building 04)
24.Number of expected residents / users	3790 no's
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)	The plot is accessible through 12 M wide right of way off 27.45 mt. wide Saki Vihar Road at east side and 36.60 mt wide DP road at north side of plot.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	Building no 1 and part of building no 2 already existed on site prior to MoEF notification 07.07.2004. Additional four floor over existing building no 2 and work up to plinth level for building no 3 have been constructed on site as per EC dated 24th December, 2007 received.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM / treated water from STP
	Fresh water (CMD):	455 KLD
	Recycled water - Flushing (CMD):	168 KLD
	Recycled water - Gardening (CMD):	80 KLD
	Swimming pool make up (Cum):	6 KLD
	Total Water Requirement (CMD) :	703 KLD
	Fire fighting - Underground water tank(CMD):	400 KL
	Fire fighting - Overhead water tank(CMD):	100 KL
	Excess treated water	271 KLD
Wet season:	**Source of water**	MCGM/RWH/ treated water from STP
	Fresh water (CMD):	455 KLD
	Recycled water - Flushing (CMD):	168 KLD
	Recycled water - Gardening (CMD):	0 KLD
	Swimming pool make up (Cum):	6 KLD
	Total Water Requirement (CMD) :	623 KLD
	Fire fighting - Underground water tank(CMD):	400 KL
	Fire fighting - Overhead water tank(CMD):	100 KL
	Excess treated water	351 KLD
Details of Swimming pool (If any)	1 swimming pool in building no 3 of dimensions 25 m x 9 m	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3.4m and 3.9m blg
	Size and no of RWH tank(s) and Quantity:	2 tanks of total capacity of 405 KL for building no 3 & 4 (2 day holding capacity)
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	Rs 35.00 lakhs
	Budgetary allocation (O & M cost) :	Rs 2.00 lakhs per annum
	Details of UGT tanks if any :	Bldg No. 3 Domestic Water Tank =500 KL Flushing Water Tank = 350KL Fire Water Tank= 450 Kl Rain Water Harvesting Tank =355 KL Location of tank= Basement Bldg No. 4 Domestic Water Tank =277 KL Flushing Water Tank = 310KL Fire Water Tank= 200 Kl Rain Water Harvesting Tank =50 KL Location of tank= Basement
35.Storm water drainage	**Natural water drainage pattern:**	As per the contours of the site its partially to the south and partially to the north
	Quantity of storm water:	2.94 m3/sec
	Size of SWD:	0.45 m x 0.45m
Sewage and Waste water	**Sewage generation in KLD:**	577 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	STP of 650 KLD for building No 3 & 4 (There is existing STP of 750 KLD for building No 1 & 2)
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	Rs 75.00 lakhs
	Budgetary allocation (O & M cost):	Rs 15.00 lakhs per annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated material, Cement Bags , Paint container (@20L), Scrap metal generated, Broken Tiles
	Disposal of the construction waste debris:	Excavated material Shall be used entirely on site for backfilling and for internal roads. Excess shall be disposed to authorized landfills Cement Bags Empty bags to be handed over to recycler. Paint container (@20L) To be handed over to recycler. Scrap metal generated Entirely to be sold for recycling Broken Tiles Waste tiles to be used for skirting. Broken pieces to be used for china mosaic waterproofing of terraces
Waste generation in the operation Phase:	**Dry waste:**	2339 Kg/Day
	Wet waste:	3049 Kg/Day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	30 kg/day
	Others if any:	E waste will be handed over to MPCB authorized dealers

Mode of Disposal of waste:	**Dry waste:**	To be hand over to Local Recyclers for recycling
	Wet waste:	To be processed in the OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	To be used as a manure
	Others if any:	E waste will be handed over to MPCB authorized dealers
Area requirement:	**Location(s):**	ground
	Area for the storage of waste & other material:	100 sqm
	Area for machinery:	5.00 sqm for each OWC
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.30.00 lakhs
	O & M cost:	Rs.06.00 lakhs per annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	RG area provided for the project is 15220.24 sqm.
	No of trees to be cut :	204 nos
	Number of trees to be planted :	612 nos (Trees retained at site-523 nos)
	List of proposed native trees :	Same as below
	Timeline for completion of plantation :	By the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Careya arborea	Kumbha	47	Deciduous and spectacular flowering
2	Deciduous and spectacular flowering	Flame-of-the-forest	52	Deciduous and spectacular flowering
3	Ficus microcarpa	Chinese banyan	34	Evergreen and showy foliage
4	Cassia fistula	Amaltas, Golden shower tree	54	Deciduous and spectacular flowering
5	Dillenia indica	Elephant Apple, Ram phal	54	Evergreen, fragrant flowers
6	Filicium decipiens	Fern Tree	58	Evergreen, spectacular foliage, flowering & fruits
7	Gardenia Species	Gardenia	62	Deciduous and showy foliage
8	Madhuca indica	Mahua	60	Deciduous and flowering
9	Saraca asoca	Sita Ashok	50	Evergreen and spectacular flowering
10	Schleichera oleosa	Kusum	54	Evergreen and showy foliage
11	Terminalia arjuna	Arjun tree	51	Evergreen and showy foliage and bark
12	Mitragayna parvifolia	Kadamb	36	Deciduous and showy foliage
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 merged with MSEDCL
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	14642 kW
	During Operation phase (Demand load):	7067 kW
	Transformer:	-
	DG set as Power back-up during operation phase:	For bldg. no. 3- 4 x 2000 KVA and For bldg. no. 4- 2 x1250 KVA for DG. Existing DG of 2 x 1500 kVA capacity
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Use of LED lights
Solar PV Panel
Solar water heating
VFD on elevator
Use of LED lights
Considering 5 start rating Electrical equipment
Using High efficiency motor

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy savings	10%

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. 70.00 lakhs
	O & M cost:	Rs. 03.50 lakhs per annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Development	12.00
2	Noise Environment	Noise Baricades and Green Belt Developments	08.00

3	Water Environment	Modular STP , Drainage with sedimentation tanks	15.00
4	Good Health Practices	Site Sanitation & Health Care	05.00
5	Environment Monitoring	Air,water,noise soil monitoring during construction phase	1.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH tanks	35.00	2.00
2	Solid waste management	OWC	30.00	6.00
3	Wastewater management	STP	75.00	15.00
4	Energy savings	Solar & LED	70.00	03.50
5	Green belt	Landscaping	28.00	6.00

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:	The plot is accessible through 12 M wide right of way off 27.45 mt. wide Saki Vihar Road at east side and 36.60 mt wide DP road at north side of plot.

Parking details:	**Number and area of basement:**	Hotel Building No.:03 =3 nos (8756.3sqm) , Hotel Building No.:04 =2 nos (5951.8 Sqm)
	Number and area of podia:	Hotel Building No.:03 =9 Podium 38225.6 sqm , Hotel Building No.:04 =5 Podium (17838.4)
	Total Parking area:	Bldg. no-3= 49656.16 sqm Bld no 4= 23790.20 sqm
	Area per car:	Basement -36.00 sqm, podium=38.00 ground – 37.00 sqm
	Area per car:	Basement -36.00 sqm, podium=38.00 ground – 37.00 sqm
	Number of 2-Wheelers as approved by competent authority:	.
	Number of 4-Wheelers as approved by competent authority:	2966 nos
	Public Transport:	9 nos
	Width of all Internal roads (m):	6.00 m wide - 7.50 m wide
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park (0.70 km aerial distance). It doesn't fall under eco sensitive zone as per ESZ Notification dtd 5th December 2016
	Category as per schedule of EIA Notification sheet	8(b) B1
	Court cases pending if any	Not applicable
	Other Relevant Informations	This project is an expansion project wherein there is an existing building no. 1 and part building no 2 already constructed on site prior to EIA notification 2004. the project has received EC in 2007
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	08-08-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	Total Water Requirement (Dry season - 703 KLD) & (Wet season - 623 KLD)
Waste Water Treatment	• Sewage generation in KLD: 577 KLD • STP technology: MBBR technology • Capacity of STP (CMD): STP of 650 KLD for building No 3 & 4 (There is existing STP of 750 KLD for building No 1 & 2) • Location & area of the STP: Basement
Drainage pattern of the project	1) Natural water drainage pattern: As per the contours of the site its partially to the south and partially to the north 2) Quantity of storm water: 2.94 m3/sec 3) Size of SWD: 0 0.45 m x 0.45m
Ground water parameters	3.4m and 3.9m blg

Solid Waste Management	1) Waste generation in the PreConstruction and Construction phase: • Waste generation: Excavated material, Cement Bags , Paint container (@20L), Scrap metal generated, Broken Tiles 2) Disposal of the construction waste debris: Excavated material Shall be used entirely on site for backfilling and for internal roads. Excess shall be disposed to authorized landfills Cement Bags Empty bags to be handed over to recycler. Paint container (@20L) To be handed over to recycler. Scrap metal generated Entirely to be sold for recycling Broken Tiles Waste tiles to be used for skirting. Broken pieces to be used for china mosaic waterproofing of terraces 3) Waste generation in the operation Phase: • Dry waste: 2339 Kg/Day • Wet waste: 3049 Kg/Day • Hazardous waste: NA • Biomedical waste (If applicable): Not Applicable • STP Sludge (Dry sludge): 30 kg/day • Others if any: E waste will be handed over to MPCB authorized dealers 4) Mode of Disposal of waste: • Dry waste: To be hand over to Local Recyclers for recycling • Wet waste: To be processed in the OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users. • Hazardous waste: NA • Biomedical waste (If applicable): NA • STP Sludge (Dry sludge): To be used as a manure 5) Others if any: E waste will be handed over to MPCB authorized dealers 6) Area requirement: • Location(s): ground • Area for machinery: 100 sqm • Capital cost: Rs.30.00 lakhs O & M cost: Rs. Rs.06.00 lakhs per annum
Air Quality & Noise Level issues	-
Energy Management	1) Power requirement: • Source of power supply : TATA POWER merged with MSEDCL • During Construction Phase: (Demand Load) 100 kVA • DG set as Power back-up during construction phase 100 kVA • During Operation phase (Connected load): 14642 kW • During Operation phase (Demand load): 7067 kW • DG set as Power back-up during operation phase: -For bldg. no. 3- 4 x 2000 KVA and For bldg. no. 4- 2 x1250 KVA for DG. Existing DG of 2 x 1500 kVA capacity • Fuel used: HSD • Details of high tension line passing through the plot if any: NA 2) Energy saving by non-conventional method: • Use of LED lights • Solar PV Panel • Solar water heating • VFD on elevator • Use of LED lights • Considering 5 start rating Electrical equipment • Using High efficiency motor 3) Detail calculations & % of saving: Overall energy savings – 10%
Traffic circulation system and risk assessment	Traffic circulation system and risk assessment –The plot is accessible through 12 M wide right of way off 27.45 mt. wide Saki Vihar Road at east side and 36.60 mt wide DP road at north side of plot
Landscape Plan	RG area provided for the project is 15220.24 sqm
Disaster management system and risk assessment	Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation – 9 mt
Socioeconomic impact assessment	-
Environmental Management Plan	Environmental Management Plan – (Cost per annum (Rs. In Lacs)) Air Environment- Water Sprinkling, Green Belt Development -12.00 2 Noise Environment -Noise Baricades and Green Belt Developments -08.00 Water Environment- Modular STP , Drainage with sedimentation tanks- 15.00 Good Health Practices -Site Sanitation & Health Care -05.00 Environment Monitoring- Air,water,noise soil monitoring during construction phase -1.50
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

Environment Clearance for Expansion of star category Hotel project at CST no. 71/A, village Paspoli, Saki Vihar Road, Powai by M/s Chalet Hotel Ltd.

Representative of PP Mr. Nikhil Mehta was present during the meeting along with environmental consultant M/s Enviro Analysts & Engineers Pvt.Ltd.

PP informed that, Proposal under consideration is for Expansion of Star category Hotel situated at Powai. they have received Environmental Clearance vide letter dated 24th December, 2007 for addition of 4 floors in existing Hotel Building no. 2 and construction of Hotel Building no. 3 (Basements +G+12 floors) and Hotel Building 4 (Basement+G+9 floors) having built up area (FSI) of 38,374.79 sqm.

PP stated that, the work of expansion of building no 2 was completed in year 2008. OC for the same received dated 11/03/2008. The construction of building no. 3 up to plinth level has been completed and work of Building no. 4 is not yet commenced. PP further stated that, now expansion has been proposed for Hotel Building no. 3 and 4. This proposed expansion is due to availability the additional FSI.Therefore now, the total plot area of the project is 60,888.62 sq. m. having total construction area 2,29,453.66 Sq. mt. (FSI- 1,08,467.80Sq. mt.+ NON FSI- 1,20,985.86. Sq.mt.). PP further state that, the project has received ToR in the 55thSEAC II meeting held on 29.09.2017.

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, form 1, 1A, EIA, 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 submit the copy of clarification received from local body regarding construction within 100 meter buffer area of Powai Lake.
2) Committee noted that, the building configuration of hotel building No -3 stated in the earlier EC is “Basements + Ground + 12 Floors” and now proposed as “Lower Basements + Upper Basement + Mid Upper Basement + Ground + 9 Podium + Service floor + Fire check +19 Typical Floors” and PP stated that,the construction of building no. 3 up to plinth level has been completed. PP to submit the architecture certificate stating “work completed upto plinth for building no 3 is as per EC”
3) PP to ensure that there is no reduction in RG area. RG area minimum should be as per earlier EC.
4) PP to submit Contour of the project and 500 mtr around the project. Superimposed with drainage pattern with capacities.
5) As agreed by PP, PP to ensure that STP is with minimum 40% ventilation.
6) PP to ensure the culvert size is sufficient.
7) For Ground water drawling, PP to follow the procedure laid by MoEF & CC vide Office Memorandum dated 2nd November, 2018.

FINAL RECOMMENDATION

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

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Amendment in EC for Proposed Residential Project With MMRDA Rental Housing Scheme, Plot bearing S. No. 148/1, 150/1, 155/1, 155/2, 156, 157, 158/1, 159, 160/4, 160/5, 161/2, 181/2A(pt) & 182 of Village-shill, Tal & Dist. - Thane, Maharashtra.

Is a Violation Case: No

1.Name of Project	Chalama Infraproperties Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Deepak Goradia, Chalama Infraproperties Pvt. Ltd.
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., Dr. D. A. Patil
5.Type of project	Residential project with MMRDA Rental Housing Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in existing Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. EC Received vide letter no. SEAC 2010/CR-161/TC-2 dated 08.08.2012 and 17.10.2014
8.Location of the project	Plot bearing S. No. 148/1, 150/1, 155/1, 155/2, 156, 157, 158/1, 159, 160/4, 160/5, 161/2, 181/2A(pt) & 182 of Village- Shill, Tal & Dist- Thane, Maharashtra.
9.Taluka	Thane
10.Village	Shill
Correspondence Name:	Chalama Infraproperties Pvt. Ltd.
Room Number:	276
Floor:	1st Floor
Building Name:	Lawrence & Mayo House
Road/Street Name:	Dr. D. N. Road
Locality:	Fort
City:	Mumbai
11.Area of the project	Thane Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD Received
	IOD/IOA/Concession/Plan Approval Number: TMC/TDD/2719/18 DTD 03/07/2018
	Approved Built-up Area: 205258.81
13.Note on the initiated work (If applicable)	Construction work is ongoing on site as per EC received. Total constructed area as on dated is 1,82,301 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MMRDA/RHD/RHS-133/195/2017 DTD 25/10/2017
15.Total Plot Area (sq. m.)	86,110 m2
16.Deductions	38,842.44 m2
17.Net Plot area	47,267.56
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,50,159.60 m2
	b) Non FSI area (sq. m.): 1,78,394.63 m2
	c) Total BUA area (sq. m.): 328554.58
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 138483.9
	Approved Non FSI area (sq. m.): 66774.91
	Date of Approval: 03-07-2018
19.Total ground coverage (m2)	29479
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	62%
21.Estimated cost of the project	2287200000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	11 Residential Buildings (Sale)	B + G + P + 1st to 29th Floors	91.95
2	2 MMRDA Buildings	G + 1st to 24th Floors	72.95
3	Club House	LG + GR + 3rd (pt) Floors	17.70
4	Residential Buildings (Sale)	Tower 1 : B + GR + P + 1st to 32nd (pt) Floors	101.75
5	Residential Buildings (Sale)	Tower 2, 3 : B+GR+P+1st to 29th Floors	93.05
6	1 Commercial Building	LG +GR + 6th (pt) Floors	25.00

23.Number of tenants and shops	Sale Flats : 2374 Nos. , MMRDA Flats : 718 Nos. ,Shops 52 Nos, Amenities : 10 Nos., MHADA Flats: 80 Nos., Comm Bldg: Shops 3 Nos., Offices 17 Nos.
24.Number of expected residents / users	16,024 Nos.
25.Tenant density per hectare	396
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	60m Wide Mumbai-Pune (NH-4) Road, 25m Wide DP Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 6m
29.Existing structure (s) if any	No
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	TMC
	Fresh water (CMD):	1432
	Recycled water - Flushing (CMD):	717
	Recycled water - Gardening (CMD):	59
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	2148
	Fire fighting - Underground water tank(CMD):	As Per NBC
	Fire fighting - Overhead water tank(CMD):	As Per NBC
	Excess treated water	1209
Wet season:	**Source of water**	TMC
	Fresh water (CMD):	1432
	Recycled water - Flushing (CMD):	717
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	2148
	Fire fighting - Underground water tank(CMD):	As Per NBC
	Fire fighting - Overhead water tank(CMD):	As Per NBC
	Excess treated water	1268
Details of Swimming pool (If any)	-	

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:**	4 to 5 m
	Size and no of RWH tank(s) and Quantity:	10 RWH tanks with total 450 KL capacity
	Location of the RWH tank(s):	Below ground
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	104 Lakh
	Budgetary allocation (O & M cost) :	5 Lakh / year
	Details of UGT tanks if any :	Will be provided as per NBC at Basement/ground
35.Storm water drainage	**Natural water drainage pattern:**	The slope of the plot is towards east side
	Quantity of storm water:	6662.03 m3/hr
	Size of SWD:	450 mm x 600 mm and 600 x 750 mm wide internal SWD Drains
Sewage and Waste water	**Sewage generation in KLD:**	2005 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	Total STP capacity: 2430 KLD
	Location & area of the STP:	Below Ground
	Budgetary allocation (Capital cost):	486 Lakh
	Budgetary allocation (O & M cost):	97 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris; 9540 m3, Excavation for basement and foundation purpose
	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:**	3185 kg/day
	Wet waste:	4778 kg/day
	Hazardous waste:	-
	Biomedical waste (If applicable):	-
	STP Sludge (Dry sludge):	20 KLD
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting Technology and sued s organic manure for landscaping.
	Hazardous waste:	-
	Biomedical waste (If applicable):	-
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	Household E-waste generation
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	250 m2
	Area for machinery:	160 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	200 Lakh
	O & M cost:	80 Lakh/yr

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	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 :**	11,825 m2
	No of trees to be cut :	-
	Number of trees to be planted :	Total Trees to be planted: 590 Nos. Out of which trees already Planted are 214 Nos.
	List of proposed native trees :	Given Below
	Timeline for completion of plantation :	Within 2 Years of completion of construction activity

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	ERYTHRINA INDICA	Pangara	48	As medicinal value, Bird and insect attractive.
2	LAGERSTROEMIA SPECIOSA	Tamhan	52	Edible, mature fruit as medicinal value, Bird and insect attractive.
3	MIMUSOP ELENGI	Bakul	39	As medicinal value, Bird and insect attractive.
4	PONGAMIA PINNATA	Karanj	51	Valued for its oil and insect repellent, having medicinal value.
5	SARACA INDICA	Sita Ashok	42	As medicinal value, Bird and insect attractive.
6	ANTHOCEPHALUS CADAMBA	Kadamba	44	Shady, large tree, ball shaped flowers
7	AZADIRACHTA INDICA	Neem	39	Semi-evergreen tree with medicinal value
8	BAUHINIA PURPUREA	Apta	52	Small tree with small white flowers, Butterfly host plant
9	EUGENIA JAMBOLANA	Jambul	31	Fruit tree attracting birds
10	MICHELIA CHAMPACA	Chafa	45	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
11	MILLINGTONIA HORTENSIS	Indian cork tree	47	Evergreen Tree
12	NYCTANTHES ARBOR TRISTIS	Parijat	52	Small deciduous fast growing tree, beautiful flowers.
13	POLYALTHIA LONGIFOLIA	Ashoka Tree	48	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	-	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	250 kVA
	DG set as Power back-up during construction phase	250 kVA
	During Operation phase (Connected load):	19.5 MW
	During Operation phase (Demand load):	13.5 MW
	Transformer:	13 x 1000 kVA
	DG set as Power back-up during operation phase:	Total 6000 kVA Capacity
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

Provision of Solar Hot Water, Solar PV Panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy saving	>20%

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. 150 Lakh
	O & M cost:	Rs. 8 Lakh/Yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	10
2	Site sanitation and potable water supply to labour	-	12
3	Environmental Monitoring	-	4
4	Health check up and first aid	-	8

5	Safety personal protective equipment	-	20
6	Safety Nets	-	30
7	Traffic Management	-	5
8	Storm water Management	-	12
9	Tyre cleaning and Vehicle maintenance	-	5
10	Safety Training to Workers, Safety Officer	-	8
11	Disinfection	-	3

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	-	486	97
2	Solar System	-	150	8
3	Rain water Harvesting	-	104	5
4	Solid waste composting	-	200	80
5	Landscape	-	110	17
6	Environmental monitoring	-	-	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:	Not Applicable

Parking details:	**Number and area of basement:**	1 Basement with area: 25,767 m2
	Number and area of podia:	1 Podium with area: 24,623 m2
	Total Parking area:	50,390 m2
	Area per car:	12.5 m2
	Area per car:	12.5 m2
	Number of 2-Wheelers as approved by competent authority:	2555 Nos.
	Number of 4-Wheelers as approved by competent authority:	2383 Nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	min 6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8(b)
	Court cases pending if any	No
	Other Relevant Informations	Total cost of the project is Rs. 656.72 Cr. Out of which cost of Phase I (already constructed as per EC received) is Rs. 428 Cr. Now, remaining cost of Rs. 228.72 Cr is for Phase II (seeking for amendment in EC) Therefore, we have paid the fees on cost of Rs. 228.72 Cr
	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	Total Water Requirement (Dry season - 2148) & (Wet season - 2148)
Waste Water Treatment	• Sewage generation in KLD: 2005 KLD • STP technology: MBBR technology • Capacity of STP (CMD): Total STP capacity: 2430 KLD • Location & area of the STP: Below Ground
Drainage pattern of the project	1) Natural water drainage pattern: The slope of the plot is towards east side 2) Quantity of storm water: 6662.03 m3/hr 3) Size of SWD: 450 mm x 600 mm and 600 x 750 mm wide internal SWD Drains

Ground water parameters	4 to 5 m
Solid Waste Management	1) Waste generation in the Pre Construction and Construction phase: • Waste generation: Construction debris; 9540 m3, Excavation for basement and foundation purpose 2) Disposal of the construction waste debris: The construction debris waste will be disposed as per construction debris and demolition waste management Rule 2016 3) Waste generation in the operation Phase: • Dry waste: 3185 kg/day • Wet waste: 4778 kg/day • Hazardous waste: NA • Biomedical waste (If applicable): Not Applicable • STP Sludge (Dry sludge): 20 KLD • Others if any: E waste will be handed over to MPCB authorized dealers 4) Mode of Disposal of waste: • Dry waste: Dry garbage will be segregated & disposed off to recyclers • Wet waste: Wet garbage will be composted using Mechanical Composting Technology and sued s organic manure for landscaping. • Hazardous waste: NA • Biomedical waste (If applicable): NA • STP Sludge (Dry sludge): To Sludge use as manure for gardening • Others if any: Household E-waste generation 5) Area requirement: • Location(s): ground • Area for machinery: 160 m2 • Capital cost: 200 Lakh O & M cost: Rs 80 Lakh/yr
Air Quality & Noise Level issues	-
Energy Management	1) Power requirement: • Source of power supply : MSEDCL • During Construction Phase: (Demand Load) 250 kVA • DG set as Power back-up during construction phase 250 kVA • During Operation phase (Connected load): 19.5 MW • During Operation phase (Demand load): 13.5 MW • DG set as Power back-up during operation phase: - Total 6000 kVA Capacity • Fuel used: HSD • Details of high tension line passing through the plot if any: NA 2) Energy saving by non-conventional method: Provision of Solar Hot Water, Solar PV Panels 3) Detail calculations & % of saving: Total energy saving >20%
Traffic circulation system and risk assessment	-
Landscape Plan	Total RG area : 11,825 m2
Disaster management system and risk assessment	Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation – Minimum 6m
Socioeconomic impact assessment	-
Environmental Management Plan	Environmental Management Plan – (Cost per annum (Rs. In Lacs)) Water spray for dust suppression - 10 Site sanitation and potable water supply to labour - 12 Environmental Monitoring - 4 Health check up and first aid - 8 Safety personal protective equipment - 20 Safety Nets - 30 Traffic Management - 5 Storm water Management - 12 Tyre cleaning and Vehicle maintenance - 5 Safety Training to Workers, Safety Officer - 8 Disinfection – 3
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

Environment Clearance for Amendment in EC for Proposed Residential Project With MMRDA Rental Housing Scheme, Plot bearing S. No. 148/1, 150/1, 155/1, 155/2, 156, 157, 158/1, 159, 160/4, 160/5, 161/2, 181/2A(pt) & 182 of Village-shill, Tal & Dist. - Thane, Maharashtra.

Representative of PP was present during the meeting along with environmental consultant M/s Enviro Analysts & Engineers Pvt.Ltd.

PP informed that, they have received prior Environmental Clearance vide letter dated 08.08.2012 for total Construction area of 2,19,330.35 Sq.mt. against proposal applied for total Construction area of 4,38,894.53 Sq.mt. EC was restricted upto 50% (i.e. 2,19,330.35 m^2)of the total project potential until laying of the sewer line in the area. PP stated that, they have received amendment (decrease in number of buildings and increase in number of floors) in Environmental Clearance vide letterdated 17.10.2014 for total Construction area of 1,86,780.30 m^2 against2,19,330.35 m^2. PP further stated that,work of laying of the sewer line in project area is completed and letter regarding the same is also received from Thane Municipal Corporation on 21.01.2017.

PP stated that, considering this, they have approached the SEIAA for release of Environmental Clearance for remaining area. The SEIAA considered project in 142ndmeeting held on 10.10.2018 and referred the case to SEAC-II for appraisal.

PP further stated that, the revised proposal which is under consideration is for total plot area of 64,508.06 Sq.mt with total built up area 3,28,555 Sq.mt (FSI- 1,50,160Sq. mt.+ NON FSI- 1,78,395 Sq.mt.).Comprising 14 Residential Buildings (Sale), 2 MMRDA Buildings, 1 Commercial Building and Club House.And there is a reduction in overall environmental parameters.

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, 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:

2) PP to explore the option of Roof top PV panels for energy saving.
3) 1209KLD/day excess treated water should be used in construction area, gardening & flushing.
4) PP to submit complete design of storm water drain with contour maps.
5) PP to ensure that, STP is with 40% ventilation.
6) PP to provide 10,000 cloths bag as one of the CER activity.

FINAL RECOMMENDATION

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

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Proposed Common Biomedical Wastes, Treatment and Disposal Facility at plot no 15 & 16, Diaghar, Shil Kalyan road, Dist. Thane

Is a Violation Case: No

1.Name of Project	Proposed Common Biomedical Wastes, Treatment and Disposal Facility at plot no 15 & 16, Diaghar, Shil Kalyan road, Dist. Thane
2.Type of institution	TOR
3.Name of Project Proponent	Enviro -Vigil
4.Name of Consultant	Mahabal Enviro Engineers Pvt. ltd
5.Type of project	Others-Common Biomedical Wastes, Treatment and Disposal Facility
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	The proposed common biomedical waste treatment and disposal facility site is located near village Daigarh, Thane District and is at 770m (aerial distance) behind the Konkan King Hotel. The co-ordinates of the site are 19o 08' 45.64
9.Taluka	Thane
10.Village	Near village Daigarh
Correspondence Name:	Enviro Vigil
Room Number:	NA
Floor:	NIL
Building Name:	Behind Boiler House
Road/Street Name:	Kalwa (W), Thane
Locality:	Kalwa (W), Thane
City:	Thane
11.Area of the project	Thane Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	REG/TMC/TEMP/1322/18
	IOD/IOA/Concession/Plan Approval Number: REG/TMC/TEMP/1322/18
	Approved Built-up Area: 2168
13.Note on the initiated work (If applicable)	NIL.No work initiated on site.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD from TMC; NOC from MSETCL datec 23rd January 2018; Agreement with TMC for land allotment and water supply ,Power supply
15.Total Plot Area (sq. m.)	8278.62 sq.m
16.Deductions	Nil
17.Net Plot area	8278.62 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 2931.32 sq.m
	b) Non FSI area (sq. m.): 218
	c) Total BUA area (sq. m.): 2931.32
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** In process
	Approved Non FSI area (sq. m.): In process
	Date of Approval: 06-04-2018
19.Total ground coverage (m2)	2386
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	30.65
21.Estimated cost of the project	82100000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Admin building - 101-A	1	3.6 mts floor to floor
2	Process area - 101B	1	9.8 mts at beam bottom
3	Electrical building area_103	only covered from top	3.5mts

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Proposed staff requirement is about 52 nos in operation .Proposed workers 40 Nos;Proposed staff 12 Nos
25.Tenant density per hectare	Not applicable. Since it is Common Biomedical waste treatment waste disposal facility.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Proposed 25 mts road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	The site is part of waste management zone and barren at present
30.Details of the demolition with disposal (If applicable)	No demolition activity will take place.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	No production	nil	NA	NA

32.Total Water Requirement

Dry season:	**Source of water**	Thane Municipal Corporation
	Fresh water (CMD):	2.5
	Recycled water - Flushing (CMD):	Not applicable;New Incinerator 6 KLD;Autoclave 1 KLD;Laboratory 5 KLD
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	19.5
	Fire fighting - Underground water tank(CMD):	Firefighting (Underground water tank) : As per NBC 2016, capacity is 1,50,000 litres
	Fire fighting - Overhead water tank(CMD):	Firefighting (Overhead water tank) :As per NBC-2016, capacity will be 20,000 lit considering High hazards
	Excess treated water	5.3
Wet season:	**Source of water**	Thane Municipal Corporation
	Fresh water (CMD):	2.5
	Recycled water - Flushing (CMD):	Not applicable;New Incinerator 6 KLD;Autoclave 1 KLD;Laboratory 5 KLD
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	14.5
	Fire fighting - Underground water tank(CMD):	Firefighting (Underground water tank) : As per NBC 2016, capacity is 1,50,000 litres
	Fire fighting - Overhead water tank(CMD):	Firefighting (Overhead water tank) :As per NBC-2016, capacity will be 20,000 lit considering High hazards
	Excess treated water	10.3
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	0	2.5	2.5	0	2.3	2.3	0	2.5	2.5
Industrial Process	0	12	22	0	0	0	0	12	12

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2m as per Soil Investigation report
	Size and no of RWH tank(s) and Quantity:	5 tanks of 10000 liters each.
	Location of the RWH tank(s):	Out of these 5 tanks, 2 will be Overhead Tanks and 3 will be on Ground Level.
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 5, 00, 000/-
	Budgetary allocation (O & M cost) :	Rs. 10, 000/-
	Details of UGT tanks if any :	Firefighting (Underground water tank) : As per NBC 2016, capacity is 1,50,000 litres Firefighting (Overhead water tank) :As per NBC-2016, capacity will be 20,000 lit considering High hazards Domestic water tank: Rain water harvesting tank capacity: 5 no.s of tanks of 10000 litres each
35.Storm water drainage	**Natural water drainage pattern:**	As per natural drainage pattern
	Quantity of storm water:	14000m3/year
	Size of SWD:	Maximum 450 mm diameter
Sewage and Waste water	**Sewage generation in KLD:**	7.5
	STP technology:	SIBF (Solid Immobilised Bio-Filter) SYSTEM
	Capacity of STP (CMD):	1 no. and 10 KLD
	Location & area of the STP:	Area footprint for STP of 10 KLD capacity will be around 300sq.ft. And area footprint for ETP of 7.8 KLD capacity will be around 200sq.ft.
	Budgetary allocation (Capital cost):	8960000
	Budgetary allocation (O & M cost):	45000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	147Tonnes
	Disposal of the construction waste debris:	Debris and excavated material will be used in filling of low lying areas and will be reused in the construction of approach roads /internal roads and construction activities
Waste generation in the operation Phase:	**Dry waste:**	0.004TPD municipal solid waste
	Wet waste:	0.009TPD municipal solid waste
	Hazardous waste:	Incinerated Ash 109500 kg/ year and ETP sludge 1200 kg / year
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	400kg
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Municipal solid dry waste like glass,plastic,metal will sold to recyclers .
	Wet waste:	Municipal wet waste will be disposed through TMC
	Hazardous waste:	ETP sludge will be sent to CHWTSDF operated by Mum bai Waste Management Ltd at Taloja.• The solid waste generated from incineration process will be incineration ash to the tune of 109500 kg/ year and ETP sludge to the tune of 1200 kg / year which will be sent to Mumbai Waste Management Ltd., Taloja.
	Biomedical waste (If applicable):	2160MT per year for incineration and 720 MT for Autoclaving.
	STP Sludge (Dry sludge):	Dried sludge (400kg) from STP will be used as manure for the green belt development.
	Others if any:	Plastic Scrap, empty containers, bags which will send to Authorized Recycler.
Area requirement:	**Location(s):**	Ground floor
	Area for the storage of waste & other material:	421.21sq. mtr
	Area for machinery:	132.05 Sq. Mtr
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1.25 crore
	O & M cost:	20 lac

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	6.5-7.5	6.5-7.5	6.5-9.5
2	TSS	mg/lit	100	<10	100
3	COD	mg/lit	200-350	<50	250
4	BOD 3 day ,27 degree Celsius	mg/lit	150-250	<30	30

Amount of effluent generation (CMD):	7.5
Capacity of the ETP:	7.8KLD
Amount of treated effluent recycled :	12
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA .
Note on ETP technology to be used	Details of ETP enlcosed
Disposal of the ETP sludge	ETP sludge to the tune of 1200 kg / year which will be sent to Mumbai Waste Management Ltd., Taloja

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Incineration Ash	37.2	kg/ year	nil	109500 kg/ year	109500 kg/ year	Mumbai Waste Management Ltd
2	Sharps	white	kg/ year	nil	40000kg/year	40000kg/year	To be autoclaved and disposed off within the sharp pit in the facility itself
3	Plastics	Red	kg/ year	nil	300000kg/year	300000kg/year	To be autoclaved and sent to authorised recycler

4	ETP Sludge	35.3	kg/ year	Nil	1200 kg / year	1200 kg / year	Mumbai Waste Management Ltd
5	Glass	Blue	kg/ year	Nil	1,00,000 kg /year	1,00,000 kg /year	After chemical disinfection and To be sent to authorised recycler
6	Waste oil from DG set	5.1	Litres /annum	Nil	256 Litres/annum	256 Litres/annum	Mumbai Waste Management Ltd

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	Incinerator	Diesel 30 lit/hr	1	40 m	0.4m	80º C
2	DG set	HSD,69 litres /hr at 100% load	1	7.5 m from ground level	0.15m	580.6 º C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	nil	30000 lit/year	30000 lit/year
41.Source of Fuel		HSD		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	2903 sq.m
	No of trees to be cut :	nil
	Number of trees to be planted :	62 trees
	List of proposed native trees :	Sita Ashok ,Bahunia ,Bartondi ,Charcoal Tree ,Shirish,Theseatia populnea,Melia azadirachta,Gmelina arborea,Adina cordifoli
	Timeline for completion of plantation :	Tree plantations around the project boundary will be initiated at the early stages by plantation of 2 to 3 years old saplings

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 ABOVE	AS ABOVE	AS ABOVE	AS ABOVE
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	Will be provided during SEAC ppt	Will be provided during SEAC ppt	Will be provided during SEAC ppt

47.Energy

Power requirement:	**Source of power supply :**	Thane Municipal Corporation
	During Construction Phase: (Demand Load)	40KW 3 Ph & N 440 Volt,AC supply
	DG set as Power back-up during construction phase	300kva x 1 no.
	During Operation phase (Connected load):	227KW
	During Operation phase (Demand load):	227KW
	Transformer:	315 KVA capacity, Dyn-11 type Distribution Transformer.
	DG set as Power back-up during operation phase:	300kva x 1 no.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	New plot is located in between two Transmission (400) volts lines of MSEB Airoli power station.NOC from MSEDCL is obtained from xxx

48.Energy saving by non-conventional method:

Solar lighting will be used for common area
Variable speed fans for ventilation and AC
Use of low loss capacitors

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar lighting will be used for common areas instead of LED Lights.	will be provided during SEAC ppt
2	Variable speed fans for ventilation and AC system will be used.	will be provided during SEAC ppt
3	Use of low loss capacitors, wattage loss with average 0.2 Watts per KVAr.	will be provided during SEAC ppt
4	Smart Switching off common area / external lighting through BMS depending on the light intensity & traffic hours.	will be provided during SEAC ppt
5	Indoor Lights will be LED type so that light efficiency is more & ballast / driver losses are less.	will be provided during SEAC ppt
6	Energy efficient motors for Water Pumps & other systems	will be provided during SEAC ppt
7	Optimization of Ratings of individual equipments such as Transformer, DG Set & cables.	will be provided during SEAC ppt
8	Radial Power Distribution achieving lesser cable loss, Voltage drop etc.	will be provided during SEAC ppt

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

STP & Noise control measures	NA	ETP,Incinerator with inbuilt scrubber,Autoclave,Shredder,Acoustic enclosures for DG set, Noise barriers for pumps, boiler,green area development etc

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25 LAKHS
	O & M cost:	2LAKHS/YEAR

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Site Sanitation facility+House keeping	Housekeeping	5.5
2	Drinking water facility	Drinking water facility	3
3	Safety railing,platform,ladder,hoist,cranes,education and safety awareness programme	Safety railing,platform,ladder,hoist,cranes,education and safety awareness programme	6
4	Health check up+Ambulance facility	Health check up+Ambulance facility	4
5	Environment monitoring	Environment monitoring	8
6	Pollution control-STP & Noise control measures	Pollution control-STP & Noise control measures	15
7	Site barricading	Barricading	4
8	Dust Control measures	Air pollution measures	4
9	EMC	EMC	6
10	Storm water drains with silt traps and collection sump:	Storm water drainage system	8
11	Rain water harvesting tanks	Rain water harvesting tanks	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	Air Pollution Control Systems Wet Scrubber,	Air Pollution Control Systems Wet Scrubber,	125	7
2	Effluent treatment plant	Water & Wastewater management	16	0.35
3	Solid Waste and hazardous waste management	Solid Waste management	15	4
4	Green area development	Green area development	4	1.2
5	Monitoring	Monitoring of ambient air,noise, water,soil	15	1
6	Environmental Cell	Environmental Cell	Covered in Capital cost	3
7	Environmental Cell	Environmental Cell	Covered in Capital cost	3
8	Rain Water Harvesting and SWD system	Rain Water Harvesting	Covered in Capital cost	0.75
9	Odor control	Odor control	5	3
10	Ash disposal	Ash disposal	--	4
11	Health Checkup for Employees	Health Checkup for Employees	2.5	2.5

12	Noise Control measures – Acoustic enclosures for DG set, Noise barriers for pumps, boiler, etc	Noise Control measures – Acoustic enclosures for DG set, Noise barriers for pumps, boiler, etc	10	2

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Kalyan Shilphata road
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	605 SQ.M
	Area per car:	12.5sq.m
	Area per car:	12.5sq.m
	Number of 2-Wheelers as approved by competent authority:	15
	Number of 4-Wheelers as approved by competent authority:	15
	Public Transport:	NA
	Width of all Internal roads (m):	4.5M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park 19.21 kms
	Category as per schedule of EIA Notification sheet	7d (a)

	Court cases pending if any	NIL
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

Environment Clearance for Proposed Common Biomedical Wastes, Treatment and Disposal Facility at plot no 15 & 16, Diaghar, Shil Kalyan road, Dist. Thane by Enviro -Vigil.

PP & Environmental Consultant was absent during the meeting. Letter dated 15th November, 2018 submitted by Environmental Consultant stated that, the project neither falls in Building Construction 8 (a) nor in the Township & Area Development Project 8(b), hence requesting to transfer the project to SEAC-1. Letter was taken on record and **committee decided to transfer the proposal to SEAC-I.**

DECISION OF SEAC

Committee decided to transfer the proposal to SEAC-I.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Expansion of residential project "Runwal Garden City " at Thane

Is a Violation Case: No

1.Name of Project	'Runwal Garden City '
2.Type of institution	TOR
3.Name of Project Proponent	Dhruva Woollen Mills Pvt. Ltd.
4.Name of Consultant	Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Previous EC (SEAC-2212/C.R.163/TC-2) received dated 29th Sept. 2014 for total construction area of 252030.22 sq. m.
8.Location of the project	S.NO.43/2, 3/1, 3/3, 4A/1/1, 4C/1, S.NO.45/1A/3, 1B/2, 2B, 3, 4B, 5 TO 8, 46/3A/1, 5B, 6 TO 16 & 17A, 47/2 TO 5, 7, 49/3 TO 6 & 9, 50/1, 2, 51/2B, 3, 4, 5, 6A, 6B, 7 TO 15, S.NO.52/1 TO 3, 53/1, 2, 3, 54/1, 2, 3, 4, 5A+6, 5B, 5C, 5D, 5G, 8A, 55/1A, 1B, 2 S.NO. 56/1 TO 6 at Balkum, Thane (W).
9.Taluka	Thane
10.Village	Balkum
Correspondence Name:	Dhruva Woollen Mills Pvt. Ltd.
Room Number:	NA
Floor:	5th Floor
Building Name:	Runwal & Omkar Esquare
Road/Street Name:	Eastern Express Highway, Opp. Sion – Chunabhatti Signal
Locality:	Sion (E)
City:	Mumbai
11.Area of the project	Thane Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	CC no. 88425/TMC/TDD/2527/18 dated 07.03.2018; 88425/TMC/TDD/134 dated 03.01.2018; and 88425/TMC/TDD/2306/17 dated 04.09.2017
	IOD/IOA/Concession/Plan Approval Number: CC no. 88425/TMC/TDD/2527/18 dated 07.03.2018; 88425/TMC/TDD/134 dated 03.01.2018; and 88425/TMC/TDD/2306/17 dated 04.09.2017
	Approved Built-up Area: 251662.32
13.Note on the initiated work (If applicable)	Constructed area till date is 145892.33 sq. m.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	CC no. 88425/TMC/TDD/2527/18 dated 07.03.2018; 88425/TMC/TDD/134 dated 03.01.2018; and 88425/TMC/TDD/2306/17 dated 04.09.2017
15.Total Plot Area (sq. m.)	108416
16.Deductions	10288
17.Net Plot area	98128
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 160095.17
	b) Non FSI area (sq. m.): 189468.15
	c) Total BUA area (sq. m.): 349563.32
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 109084.11
	Approved Non FSI area (sq. m.): 142578.2
	Date of Approval: 07-03-2018
19.Total ground coverage (m2)	35420.63 sq. m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	36.1%
21.Estimated cost of the project	2410000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Plot A: Tower 15	UB + LB + Stilt + 1 to 45 floors	142.2
2	Plot B: Tower 1,2,3,4,5	Stilt + Podium + 18 floors	58.15
3	Plot B: Tower 6A,6B,6C,6D	B + LG + UG + Podium + 40 floors	127.9
4	Plot B: Tower 7,8,9,10,11,12,13	LG + UG + Podium + 34 floors	110.15
5	Plot B: Tower 14	2 level basement + stilt + 45 floors	142.2
6	Plot C: Building A1	Stilt + 18 floors	54.95
7	Plot C: Building A2, A3, A4	Stilt + 18 floors (p)	54.95
8	Plot C: Building B1, B2	Stilt + 17 floors	52.04
9	Plot C: Building C1, C2	Stilt + 20 floors	60.75
10	Plot C: Building D	Stilt + 30 floors	91.2

23.Number of tenants and shops	Flats: 2925 nos.
24.Number of expected residents / users	14625 nos.
25.Tenant density per hectare	298.5 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)	20 m wide DP road passing through the plot. This road further connects to the old Agra road which is 40 meter wide.
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	Plot B: Tower 1 to 5, 8 to 13; PLOT C: Building A1, A2, A3, A4, B1, B2, C1, C2,D
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**	TMC water and recycled wastewater from STP
	Fresh water (CMD):	1316
	Recycled water - Flushing (CMD):	658
	Recycled water - Gardening (CMD):	22
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1996
	Fire fighting - Underground water tank(CMD):	4725
	Fire fighting - Overhead water tank(CMD):	720
	Excess treated water	1071
Wet season:	**Source of water**	TMC water, harvested rain water and recycled wastewater from STP
	Fresh water (CMD):	1316
	Recycled water - Flushing (CMD):	658
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1974
	Fire fighting - Underground water tank(CMD):	4725
	Fire fighting - Overhead water tank(CMD):	720
	Excess treated water	1093
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:**	Boreholes at depth between 1.75m and 2.75m below ground surface.
	Size and no of RWH tank(s) and Quantity:	Total 440 m3
	Location of the RWH tank(s):	Above ground level
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	98 lac
	Budgetary allocation (O & M cost) :	5.1 lac
	Details of UGT tanks if any :	Location: Lower ground level Domestic UG tank: 1971 m3 Domestic OH tank: 700 m3 Flushing UG tank: 1933 m3 Flushing OH tank: 695 m3 Fire tank: UGT - Total capacity 4725 m3 OHT - Total capacity 720 m3
35.Storm water drainage	**Natural water drainage pattern:**	Towards west
	Quantity of storm water:	0.4 m3/ sec.
	Size of SWD:	Drain: 600 mm (W) x 600 mm (D)
Sewage and Waste water	**Sewage generation in KLD:**	1843 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1900 KLD
	Location & area of the STP:	Above ground level
	Budgetary allocation (Capital cost):	160 lac
	Budgetary allocation (O & M cost):	22 lac

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Cement bags: 4309 nos.; Paint containers (@20L): 431 nos.; Scrap metal generated ; 1 MT Broken tiles: 359 sq. m.; Aggregates: 3 MT
	Disposal of the construction waste debris:	Cement bags : Empty bags will be handed over to authorized recycler; Paint container (@20L): Will be handed over to authorized recycler; Scrap metal generated: 100 % will be sold for recycling; Broken tiles: Waste tiles will be used for skirting. Broken pieces will be used for china mosaic and terrace waterproofing. Aggregates: Will be used as a layer for internal roads and building boundary wall.
Waste generation in the operation Phase:	**Dry waste:**	2925 Kg/day
	Wet waste:	4388 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	92 KLD
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	This will be handed over to authorized local recyclers.
	Wet waste:	This will be processed in Organic Waste Converter machine to give manure. The manure will be used for landscaping work at the site.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	This will be processed in Organic Waste Converter machine to give manure. The manure will be used for landscaping work at the site.
	Others if any:	NA
Area requirement:	**Location(s):**	Ground floor
	Area for the storage of waste & other material:	178 sq. m.
	Area for machinery:	20 sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	38 lac
	O & M cost:	5.8 lac

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	Total 17815 sq. m. R.G. area; 3201 sq. m. on mother earth.
	No of trees to be cut :	NA
	Number of trees to be planted :	1356 nos.
	List of proposed native trees :	Kanchan, kunti, kadunimb, bahava, chikoo etc.
	Timeline for completion of plantation :	On completion of construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ficus benhalensis (Retained)	Wad	75	The figs produced by the tree are eaten by birds such as the Indian myna.
2	Acacia catechu (Retained)	Khair	25	This has anti fungal characteristic. It also helps in blood clotting
3	Azadirachta indica (Retained)	Neem	45	It has medicinal propertiees.
4	Peltrophorum pterocarpum (Retained)	Copperpod	91	The tree is widely grown in tropical regions as an ornamental tree.
5	Ficus racemosa (Retained)	Umber	32	This tree has healing power.
6	Leueaena leucocephala (Retained)	Subabhul	47	The young pods are edible. It is also useful in pulp and paper industry.
7	Phoenix dactylifera (Retained)	Date palm	11	They can be easily grown from seed.
8	Ficus religiosa (Retained)	Peepal	23	This holds medicinal value and is used to treat many ailments and diseases, ranging from a snake bite to asthma, skin diseases, kidney diseases, constipation, dysentery, impotency and various blood-related problems.
9	Borassus flabellifer (Retained)	Tad	34	The plant parts have been reported for various medicinal properties including leaves (antioxidant and anti-inflammatory activities), shoot (cyctotoxic, antidiabetic and immunosuppressive).
10	Cordia dichotoma (Retained)	Bhokar	78	The decoction of the bark is used for cleansing fresh wounds and wound due to insect bite.
11	Zizyphus indicus (Retained)	Bor	81	This is useful for improving muscular strength and weight, for preventing liver and bladder diseases and stress ulcers.
12	Pongamia pinnaca (Retained)	Karanj	45	This is useful as a crude drug for the treatment of tumors, piles, skin diseases, and ulcers.

13	Bauhunia blackianna	Bauhunia	61	It purifies the blood and checks the body's weight. It is anti-dermatoses and also cures lymphatic inflammation.
14	Alstonia scholaris	Indian devil	74	Its wood is recommended for the manufacture of pencils. It grows rapidly and is easy to cultivate.
15	Nyetanthes arbotristis	Parijat	47	It is widely used as a decoction in the Ayurvedic system of medicine for treatment of sciatica and arthritis.
16	Delonix regia	Gulmohar tree	14	This is mainly valued for its seeds , leaves, shade and ornamental value.
17	Spathodia campanulata	African Tulip	98	This is planted as an ornamental, a wayside tree and shade tree. It is used for soil improvement, reafforestation, erosion control and land rehabilitation, and as a live fence.
18	Polyalthea longiphoria	Ashoka	48	Its leaves are used for ornamental decoration during festivals.
19	Areca catchu	Supari	24	It is used as a diuretic, digestive, anthelmintic, astringent, and cardiotonic.
20	Inga dulsis	Vilayti Chinh	46	Its root bark is used to cure dysentery.
21	Thevetia peruviana	Yellow olender	73	Its bark or leaf decoction is taken to loosen the bowels, as an emetic, and is said to be an effective cure for intermittent fevers.
22	Pangara pinnata	Indian coral tree	46	Decoction of its leaves is used for the treatment of urticaria.
23	Cassia javanica	Pink shower	78	It is useful for treating constipation, colic, chlorosis and urinary disorders.[
24	Wodyetia bifurcata	Foxtail palm	56	It useful accent in a wide spectrum of landscape settings.
25	Murraya exotica	Orange jessamine	81	This is used as an ornamental plant and has a medicinal use.
26	Moringa olifera	Shevga	23	It is rich in many important nutrients, including protein, vitamin B6, vitamin C, riboflavin and iron.
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	NA
	During Operation phase (Connected load):	39561 kW
	During Operation phase (Demand load):	15157 kW
	Transformer:	Total capacity: 6670 KVA
	DG set as Power back-up during operation phase:	2890 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Lifts with VFD, use of solar energy, LED lamps for lighting etc.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy saving	11%

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:**	220 lac
	O & M cost:	33 lac

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 sprinkling	Air environment	1.0
2	First aid facilities	Occupational safety	0.75
3	Toilets and sanitary facilities	Wastewater management	2.0
4	Post monitoring works	Environmental monitoring	1.75

b) Operation Phase (with Break-up):

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

1	Rain water harvesting system	Water conservation	98.0	6.0
2	Organic waste coverter	Solid waste management	40.0	6.5
3	Energy saving measures	Energy conservation	220	33
4	Sewage treatment plant	Waste water management	160	22
5	Landscaping	Green belt development	75	10

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:	Access to the project has been provided by 20 m wide DP road passing through the plot and then it is connected to Old Agra Road 40 meter wide.
Parking details:	**Number and area of basement:**	No. of basements: 2 each for buildings 6A,6B,6C & 6D and for 14, 15; Total area: 19489.5
	Number and area of podia:	Podia: 1 no. each for buildings 1 to 13 Total area: 35959.03 sq. m.
	Total Parking area:	69867 sq. m.
	Area per car:	35 sq. m.
	Area per car:	35 sq. m.
	Number of 2-Wheelers as approved by competent authority:	1781 nos.
	Number of 4-Wheelers as approved by competent authority:	2013 nos.
	Public Transport:	TMT buses, auto, taxi etc.
	Width of all Internal roads (m):	12 m
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park-8 km towards West
	Category as per schedule of EIA Notification sheet	8 (b1)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	11-06-2018

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

Environment Clearance for Expansion of residential project "Runwal Garden City " at S.NO.43/2, 3/1, 3/3, 4A/1/1, 4C/1, S.NO.45/1A/3, 1B/2, 2B, 3, 4B, 5 TO 8, 46/3A/1, 5B, 6 TO 16 & 17A, 47/2 TO 5, 7, 49/3 TO 6 & 9, 50/1, 2, 51/2B, 3, 4, 5, 6A, 6B, 7 TO 15, S.NO.52/1 TO 3, 53/1, 2, 3, 54/1, 2, 3, 4, 5A+6, 5B, 5C, 5D, 5G, 8A, 55/1A, 1B, 2 S.NO. 56/1 TO 6 at Balkum, Thane (W) by Dhruva Woollen Mills Pvt. Ltd.Environment

Representative of PP was present during the meeting along with environmental consultant M/s Enviro Analysts & Engineers Pvt.Ltd. PP informed that, they have received Environmental Clearance vide letter dated 29th September 2014 fortotal construction area of 2,52,030.22 sq. m. PP further stated that, as per earlier EC, the project contained 23 nos. of buildings in plots B (14 buildings) and C (9 buildings). There was no building earlier proposed in plot A. Work of all these 9 buildings on plot C are constructed as per EC approved and Occupation certificate (pt.) is also received. Similarly out of 14 buildings in plot B, the work of 5 buildings is completed, the construction of 7 buildings is in progress and one building in plot B is yet to be constructed. Total construction completed till date is 1,45,892.33 sq. m. PP further informed that, the project under consideration is for expansion due to additional of the plot and loading TDR.

PP informed that, the proposed expansion is vertical expansion for 7 buildings under construction and one building which is yet to be constructed in plot B, one building in plot C and proposing one new building in plot A. therefore now,the total plot area of the project is 1,08,416 sq. m.having total construction area 3,49,563.32 Sq. mt.(FSI-1,60,095.17 Sq. mt.+ NON FSI-1,89,468.15.Sq mt.).

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, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

After discussion, ToR presented by PP was approved with following additional ToR

Specific Conditions by SEAC:

1) PP to submit Socio-economic Impact Assessment of the project on nearby areas.
2) PP to submit wind analysis, traffic analysis, light and ventilation analysis and measures to reduce heat island effect, shadow analysis reports & also upload on website.
3) PP to submit the architect certificate for construction done on site.
4) PP to submit Contour and slope analysis super imposed with storm water drain, sewer line map in the project and 500 mtr around the project.
5) PP to ensure that RG area should be on ground.
6) PP to lay vegetative buffer on sides of Highway.
7) PP to submit project specific DMP.
8) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project.
9) PP to also refer standard ToR published by MoEF vide order dated 10/04/15 in addition to above.

FINAL RECOMMENDATION

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

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Expansion of Residential and Commercial project on Plot bearing CTS No. 4/2 (Sector IV), 25/A/2 (Sector VII), 16, 18, 19, 20, 21, 22 (Sector XI), 10, 11, 14-B, 14-C, 16-A, 17, 18, 19 (Sector V), 28/A & 28/B, 22/3, 22/6, 20 (pt) & 22 (pt), 18 (pt), 19 (pt) (Sector XI-A) at Powai, 11/A at Chandivali, 24/A at Tirandaz, 13-A/1/1A(PT.), 14C (PT.) & 16 A (PT.) (Sector-VI-A) & 11B/4 (Sector-XIV) Mumbai, Maharashtra by HGP Community Pvt. Ltd. (Formerly known as Lake View Developers)

Is a Violation Case: No

1.Name of Project	HGP COMMUNITY PRIVATE LIMITED (Formerly known as Lake view Developers)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Bhagwan Patil
4.Name of Consultant	Dr. D. A. Patil ; Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC was obtained vide No. SEAC-2013/CR-97/TC.1 dated 10.04.2014 for the Plot area 9,81,004.98 m2, having FSI area 3,39,089.76 m2 and total construction area 7,26,493.67 m2.
8.Location of the project	Plot bearing CTS No. 4/2 (Sector IV), 25/A/2 (Sector VII), 16, 18, 19, 20, 21, 22 (Sector XI), 10, 11, 14-B, 14-C, 16-A, 17, 18, 19 (Sector V), 28/A & 28/B, 22/3, 22/6, 20 (pt) & 22 (pt), 18 (pt), 19 (pt) (Sector XI-A) at Powai, 11/A at Chandivali, 24/A at Tirandaz, 13-A/1/1A(PT.), 14C (PT.) & 16 A (PT.) (Sector-VI-A) & 11B/4 (Sector-XIV) Mumbai, Maharashtra by HGP Community Pvt. Ltd. (Formerly known as Lake View Developers)
9.Taluka	-
10.Village	Powai, Chandivali, Tirandaz Mumbai
Correspondence Name:	HGP COMMUNITY PRIVATE LIMITED (Formerly known as Lake view Developers)
Room Number:	-
Floor:	-
Building Name:	Olympia Central Avenue
Road/Street Name:	-
Locality:	Hiranandani Business Park
City:	Powai, Mumbai - 400076
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	CE/192/BPES/AS dated 28/03/'2018
	IOD/IOA/Concession/Plan Approval Number: CE/192/BPES/AS dated 28/03/'2018
	Approved Built-up Area: 661914.78
13.Note on the initiated work (If applicable)	The construction is going on as per EC received vide No. SEAC-2013/CR-97/TC.1 dated 10.04.2014
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	To be applied
15.Total Plot Area (sq. m.)	10,07,620.00 m2
16.Deductions	2,13,955.21 m2
17.Net Plot area	7,91,397.6 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 5,35,372.08 m2
	b) Non FSI area (sq. m.): 5,34,061.04 m2
	c) Total BUA area (sq. m.): 1069433.12
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 3,49,859.40 m2
	Approved Non FSI area (sq. m.): 3,12,055.38 m2
	Date of Approval: 28-03-2018
19.Total ground coverage (m2)	1,85,312.18 m2

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.41%
21.Estimated cost of the project	32250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Belicia	3B + St + Pod + 1st to 30th Floor	102.45
2	Adalia (Wing A & B)	3B + St + 1st to 31st Floor	102.55
3	Adalia (Wing C & D)	3B + St + 1st to 31st Floor	102.55
4	Tamara	3B + St + 1st to 31st Floor	102.55
5	Bianca	3B + St + 1st to 29th Floor	96.35
6	Atlantis (Wing A & B)	2B + St + 4 Pod +1st to 27th Floor	88.35
7	Atlantis (Wing C)	2B + St + 4 Pod +1 to 28th Floor	91.35
8	Maple	B + St + Pod +2nd to 17th Floor	54.15
9	Hill Grange	1B + St +1st to 22nd Floor	68.80
10	Huntsman (Castle rock) (Wing A & B)	B + St + 4 Pod + 5th to 22nd Floor	60.15
11	Huntsman (Castle rock) (Wing C & D)	3B + St + 1st to 19th Floor	69.15
12	Sorrento	2B + Gr +1st to 22nd Floor	69.75
13	Regent hill	3B + St + 1st to 23rd Floor	69.80
14	Highland	2B + St + 1st to 22nd Floor	69.95
15	Adonia II (Amber)	3B + Gr+ 1st to 27th Floor	85.35
16	Empress Hill	2B + St + 1st to 22nd Floor	69.95
17	G4 Commercial	2B +St + 1st To 14th Floor	55.80
18	Residential Building	2B + St + 1st to 22nd Floor	69.95
19	Community Center	2B + Gr + 1st to 2nd Floor	13.20
20	Already Constructed Buildings	-	-
21	Glen Ridge	Lower St + Upper St + 1 Pod 2nd to 31st Floor	105.15
22	Knowledge Park	2B + Gr+1st to 12th + 13th (Part) Floor	62.90
23	Kensington	LB + UB + St+2 Pod+3rd to 15th Floor	67.95

23.Number of tenants and shops	Flats: 4,989 Nos. Commercial: Knowledge Park and Kensington buildings already constructed and occupied, G4 and Community Centre is proposed, Commercial BUA: 1,63,782.23 m
24.Number of expected residents / users	41,323 Nos.
25.Tenant density per hectare	65/Ha
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The project site is accessed by 45.75 m wide Jogeshwari-Vikhroli Link Road (JVLR).
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	Yes, existing Buildings in Layout
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**	MCGM
	Fresh water (CMD):	2655 KLD
	Recycled water - Flushing (CMD):	1417 KLD
	Recycled water - Gardening (CMD):	583 KLD
	Swimming pool make up (Cum):	7 KLD
	Total Water Requirement (CMD) :	4112 KLD
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	657 KLD

Wet season:	**Source of water**	MCGM+RWH
	Fresh water (CMD):	2155+500 KLD
	Recycled water - Flushing (CMD):	1417 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	7 KLD
	Total Water Requirement (CMD) :	4112 KLD
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	1240 KLD
Details of Swimming pool (If any)	-	

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:**	Ground water table at depth of 3 to 4 m
	Size and no of RWH tank(s) and Quantity:	RWH tanks and RWH Ponds of total capacity 500 KL
	Location of the RWH tank(s):	Ground/Basement
	Quantity of recharge pits:	The existing bore wells, dug cum bore well and percolation pits for ground water recharge
	Size of recharge pits :	2 m dia, 3 m depth
	Budgetary allocation (Capital cost) :	Rs. 87 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 4.7 Lakhs/year
	Details of UGT tanks if any :	Will be provided as per NBC at Basement/ground

35.Storm water drainage	**Natural water drainage pattern:**	The slope of the plot is towards North side
	Quantity of storm water:	The storm water generation 34.3 m3/sec
	Size of SWD:	0.30 to 0.60 m wide internal SWD drains Storm water drains of six and four feet wide size are present along the main internal roads of layout
Sewage and Waste water	**Sewage generation in KLD:**	3,574 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	18 STP's of total 4,330 KLD capacity
	Location & area of the STP:	Ground/Basement
	Budgetary allocation (Capital cost):	Rs.1,082 Lakhs
	Budgetary allocation (O & M cost):	Rs. 211 Lakhs/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: 10,000 m3; Excavation for basement and foundation purpose
	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:**	6,299 kg/day
	Wet waste:	9,449 kg/day
	Hazardous waste:	-
	Biomedical waste (If applicable):	-
	STP Sludge (Dry sludge):	39 kg/day
	Others if any:	-
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:	-
	Biomedical waste (If applicable):	-
	STP Sludge (Dry sludge):	Sludge after dewatering will be used as manure for gardening
	Others if any:	Household E-waste generation
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	600 m2
	Area for machinery:	325 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 235 Lakhs
	O & M cost:	Rs. 104 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 on Ground: 1,03,462.63 m2; RG on Podium: 13,207.94 m2
	No of trees to be cut :	142 Nos.
	Number of trees to be planted :	750 Nos.
	List of proposed native trees :	Given below
	Timeline for completion of plantation :	Within 2 years of completion of construction activity

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	Kinhai	10	As medicinal value.
2	AMOORA ROHITUKA	Rohituk	20	As medicinal value.
3	ERYTHRINA INDICA	Pangara	39	As medicinal value, Bird attractive.

4	LAGERSTROEMIA SPECIOSA	Tamhan	60	Edible, mature fruit as medicinal value, Bird and attractive.
5	MILLINGTONIA HORTENSIS	Kaval Nimb	71	As Bird attractive.
6	MIMUSOP ELENGI	Bakul	15	As medicinal value, Bird attractive.
7	PONGAMIA PINNATA	Karanj	15	Valued for its oil and repellent, having medicinal value.
8	SARACA INDICA	Sita Ashok	22	As medicinal value, Bird attractive.
9	SWIETENIA	Mahogany	35	As medicinal value, Bird attractive.
10	TERMINALIA ARJUNA	Arjuna	30	As medicinal value. produce tassar silk, a wild silk of commercial importance.
11	TREVIA NODIFLORA	Pindar	33	Bird attractive.
12	ANNONA SQUAMOSA	Sugar apple	23	Annona squamosal is as small, well-branched tree
13	ANTHOCEPHALUS CADAMBA	Kadambha	30	Shady, large tree, ball shaped flowers.
14	ARECA CATECHU	Areca nut	35	-
15	AZADIRACHTA INDICA	Neem	35	Semi-evergreen tree with medicinal value
16	BAUHINIA PURPUREA	Apta	35	Small tree with small white flowers, Butterfly host plant
17	CITRUS ACIDA	Limbu	30	Fruit Bearing Tree
18	COCOS NUCIFERA	Coconut	15	Shady tree with White flowers.
19	CANARIUM STRICTUM	Dhoop	20	As medicinal value.
20	DYPSIS MADAGASCARIENSIS	Macaw Palm	40	Flowering plant
21	ELAEIS GUINEENSIS	Oil Palm	22	-
22	EUGENIA JAMBOLANA	Jambul	25	Fruit tree attracting birds
23	FICUS BENJANMINA	Ficus	35	Flowering plant
24	Millingtonia Hortensis	Indian Cork Tree	30	A evergreen tree with white flowers
25	Michelia Champaca	Son Chafa	35	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Tata Power
	During Construction Phase: (Demand Load)	1000 kVA
	DG set as Power back-up during construction phase	750 kVA
	During Operation phase (Connected load):	83.38 MW
	During Operation phase (Demand load):	47.14 MW
	Transformer:	28 Nos. x 1500 KVA
	DG set as Power back-up during operation phase:	17,395 kVA (6 x 380 kVA, 2 x 320 kVA, 6 x 750 kVA, 4 x 400 kVA, 4 x 600 kVA, 8 x 500 kVA, 1 x 625 kVA, 1 x 1350)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Nil

48.Energy saving by non-conventional method:

Solar PV Hot water to Residential Buildings
Solar PV Panels on Roof Top of Commercial Area

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saving	>20

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. 373 Lakhs
	O & M cost:	Rs. 27 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	-	10
2	Site sanitation Facility and its maintenance	-	12
3	Potable Water Supply to Labour	-	14
4	Solid waste management	-	10
5	Disinfection	-	6

6	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves etc.)	25
7	Traffic Management (Sign Boards, Persons, at entry exit and Parking area)	-	12
8	Safety nets	-	38
9	Tyre cleaning and Vehicle maintenance	-	8
10	Safety Training to Workers (Twice in Year), Safety Officer	-	15
11	Environmental Monitoring	(As per the CPCB guidelines through MoEF&CC Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time)	4

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	1082	211
2	Solar System	Weekly	373	27
3	Rainwater harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	87	4.7
4	Solid Waste Composting plant	Continuous O & M	235	104
5	Landscape	Daily	1166	231
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:	The project site is accessed by 45.75 m wide Jogeshwari-Vikhroli Link road
Parking details:	**Number and area of basement:**	1, 2 and 3 basements, Total area: 11,82,114.58 m2
	Number and area of podia:	1 & 4 Podium, Total area: 40,653.33 m2
	Total Parking area:	3,19,246.3 m2
	Area per car:	29.3 m2
	Area per car:	29.3 m2
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	10,564 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park : 2 km approx
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	Yes, Court case in High court of Bombay, Civil application No. 36 of 2017 in PIL No. 131 of 2008
	Other Relevant Informations	The TOR is granted by Ministry of Environment, Forest and Climate Change, Delhi on 07.09.2017
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-08-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

Environment Clearance for Expansion of Residential and Commercial project on Plot bearing CTS No. 4/2 (Sector IV), 25/A/2 (Sector VII), 16, 18, 19, 20, 21, 22 (Sector XI), 10, 11, 14-B, 14-C, 16-A, 17, 18, 19 (Sector V), 28/A & 28/B, 22/3, 22/6, 20 (pt) & 22 (pt), 18 (pt), 19 (pt) (Sector XI-A) at Powai, 11/A at Chandivali, 24/A at Tirandaz, 13- A/1/1A(PT.), 14C (PT.) & 16 A (PT.) (Sector-VI-A) & 11B/4 (Sector-XIV) Mumbai, Maharashtra by HGP Community Pvt. Ltd. (Formerly known as Lake View Developers)

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

PP informed that, they have received prior Environmental Clearance vide letter dated 10.04.2014 for plot area of 9,81,044.98 Sq.mt and total construction area of 7,26,493.77 Sq.mt.PP stated that,total construction completed till date is 5,37,287.8 sq. m. PP further informed that, the project under consideration is for amendment in EC due to the increase in plot area of 26,575.02 Sq.mt and addition of TDR, therefore now, the total plot area of the project is 10,07,620 sq. m. having total construction area 10,69,433.12 Sq. mt.(FSI- 5,35,372.08 Sq.mt.+ NON FSI- 5,34,061Sq mt.). PP informed that, the ToR was issued by the MoEF &CC vide letter dated 07.09.2017 &layout for entire plan has been approved by Planning Authority.

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, form 1, 1A,EIA, presentation & plans submitted are taken on the record.

DECISION OF SEAC

In view of above, the proposal is deferred and shall be considered only after the compliance of above observations.

Specific Conditions by SEAC:

1) Local body/Planning Authority to ensure compliance of court order (PIL No 131/2008) before issuance of Commencement Certificate.
2) Committee noted that, the project architect was not present to explain the comparative changes in cross sections and decrease in height of building while increase in floors.
3) Committee noted that, prima facie there is change in building profile and building plans. PP to submit the comparative statement for baseline i.e building wise profile, area, height etc to ascertain the violation, if any

FINAL RECOMMENDATION

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

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Proposed Amendment & Expansion in Residential and Commercial Project At Plot Bearing Survey No. 7/1, 7/2, 7/3, 7/4, 7/5, 7/6, 7/7, 7/8, 7/9, 7/10, 7/11, 7/12, 7/13, 7/14, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6 ,8/7, 8/8, 8/9, 8/10, 8/11, 8/12, 8/13, 8/14, 8/15, 8/16, 8/17, 8/18, 8/19 ,8/20, 8/21, 8/22, 8/23, 8/24, 8/25, 8/26, 8/27, 8/28, 8/29, 8/30, 8/31, 8/32, 8/33, 8/34, 8/35, 8/36, 8/37, 8/38, 8/39, 8/40, 8/41, 8/42, 9/1, 9/2, 9/3, 9/4, 9/5, 9/6, 9/7, 9/8, 9/9, 9/10, 9/11, 9/12, 9/13, 9/14, 9/15 ,9/16

Is a Violation Case: No

1.Name of Project	Piramal Estates Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Shiju Bhaskar ; Piramal Estates Pvt. Ltd.
4.Name of Consultant	Dr. D. A. Patil; Mahabal Enviro Engg. Pvt. Ltd.
5.Type of project	Amendment & Expansion in Residential cum Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment & Expansion Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Prior Environmental Clearance vide No. 21-124/2014-IA.III dt. 23.06.2015
8.Location of the project	At Plot Bearing Survey No. 7/1, 7/2, 7/3, 7/4, 7/5, 7/6, 7/7, 7/8, 7/9, 7/10, 7/11, 7/12, 7/13, 7/14, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6 ,8/7, 8/8, 8/9, 8/10, 8/11, 8/12, 8/13, 8/14, 8/15, 8/16, 8/17, 8/18, 8/19 ,8/20, 8/21, 8/22, 8/23, 8/24, 8/25, 8/26, 8/27, 8/28, 8/29, 8/30, 8/31, 8/32, 8/33, 8/34, 8/35, 8/36, 8/37, 8/38, 8/39, 8/40, 8/41, 8/42, 9/1, 9/2, 9/3, 9/4, 9/5, 9/6, 9/7, 9/8, 9/9, 9/10, 9/11, 9/12, 9/13, 9/14, 9/15 ,9/16, 9/17, 10/2A, 10/3, 10/4A, 10/5A, 10/5K, 10/5D, 10/6, 10/7, 10/8, 10/9, 10/10A, 10/10B, 10/11, 10/12, 10/13, 10/14, 10/15, 10/17, 10/18, 88/6B, 99/13A, 99/13B, 99/15B, 100/14A, 100/14B, 100/15A, 100/15B, 100/16A, 100/16B, 100/17A, 100/17B, 100/17K, 100/18A, 100/18B, 100/19A, 100/19B, 100/20, 100/24A, 100/24B, 100/25, 100/26, 100/27, 100/28, 100/29, 100/30, 100/31A, 100/31B, 100/32, 100/33, 101/2A, 101/2B, 101/3A, 105/1, 105/2, 105/3, 105/4, 105/5, 105/6, 105/8, 105/9, 105/11, 105/12, 105/13, 105/14, 105/15, 105/16, 105/18 at Village Balkum, Thane, Maharashtra
9.Taluka	Thane
10.Village	Balkum
Correspondence Name:	Mr. Shiju Bhaskar. Piramal Estates Pvt. Ltd.
Room Number:	-
Floor:	8th Floor
Building Name:	Piramal Tower
Road/Street Name:	G. K. Marg
Locality:	Peninsula Corporate Park
City:	Lower Parel, Mumbai -400013
11.Area of the project	Thane Municipal Corporation (TMC)
12.IOD/IOA/Concession/Plan Approval Number	IOD received
	IOD/IOA/Concession/Plan Approval Number: Plan approval No. V.P. No. S05/0068/13 TMC/TD-DP/TPS/2268/17 dated 01.08.2017
	Approved Built-up Area: 147351.49
13.Note on the initiated work (If applicable)	Total area constructed on site is 40,700 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1,29,000 m2
16.Deductions	2931 m2
17.Net Plot area	1,26,069 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 3,21,476 m2
	b) Non FSI area (sq. m.): 4,92,266 m2
	c) Total BUA area (sq. m.): 813742

18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 1,47,351.49 m2
	Approved Non FSI area (sq. m.): 1,79,649 m2
	Date of Approval: 01-08-2017
19.Total ground coverage (m2)	41,379 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	32%
21.Estimated cost of the project	21000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Cluster 1 - Tower A	B + G + 5th Upper podium + 6th to 36th Upper residential floors including 1 fire check floor	122.40
2	Cluster 1 -Tower B	B + G + 5th Upper podium + 6th to 36th Upper residential floors including 1 fire check floor	122.40
3	Cluster 1 -Tower C	B + G + 1st to 36th residential upper floors	122.40
4	Cluster 1 -Town House D	B + G + 1st to 6th Upper floors (pt)	23.98
5	Cluster 1 -Town House E	B + G + 1st to 6th Upper floors (pt)	23.98
6	Cluster 1 -Town House F	B + G + 1st to 6th Upper floors (pt)	23.98
7	Cluster 2-Tower T1	G + 4th Upper podium + 5th to 38th Upper residential floors	122.40
8	Cluster 2-Tower T2	G + 4th Upper podium + 5th to 38th Upper residential floors	122.40
9	Cluster 3 - T1 to T7	2B + G + 5th Upper podium + 6th to 54th Upper residential floors	176.20
10	Cluster 4 - Tower T1	B + G + 5th Upper podium + 6th to 38th Upper residential floors	122.40
11	Cluster 4 -Tower T2	B + G + 5th Upper podium + 6th to 39th Upper residential floors	122.40
12	Cluster 4 -Tower T3	B + G + 5th Upper podium + 6th to 39th Upper residential floors	122.40
13	Cluster 4 -Tower T4	B + G + 5th Upper podium + 6th to 39th Upper residential floors	122.40
14	Cluster 5- Tower T1 & T2	2B + G + 3th Upper podium + 4th to 29th Upper residential floors	94.60
15	Cluster 6- Tower T1 to T3	2B + G + 5th Upper podium + 6th to 38th Upper residential floors	121.60
16	Iscon Temple	Temple, East Tower 2B+ G + 19, West Tower 2B + G + 5, Auditorium G + 3, Prasadam Ground Structure, Community Hall G + 2	Temple : 21m East Tower : 68.65m West Tower : 30.85m Auditorium : 16.45m Prasadam : 5.45m Community Hall : 13.45m

23.Number of tenants and shops	4896 Nos.
24.Number of expected residents / users	25,545 Nos.

25.Tenant density per hectare	379/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The plot is located abutting to 30 m wide D. P. Road and also accessible from 60 m wide Old Agra Road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m wide
29.Existing structure (s) if any	Sales Office, Old Residential Bungalow, & Shade
30.Details of the demolition with disposal (If 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**	TMC
	Fresh water (CMD):	2230
	Recycled water - Flushing (CMD):	1123
	Recycled water - Gardening (CMD):	118
	Swimming pool make up (Cum):	120
	Total Water Requirement (CMD) :	3353
	Fire fighting - Underground water tank(CMD):	As per norms
	Fire fighting - Overhead water tank(CMD):	As per norms
	Excess treated water	1857

Wet season:	**Source of water**	TMC
	Fresh water (CMD):	2230
	Recycled water - Flushing (CMD):	1123
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	120
	Total Water Requirement (CMD) :	3353
	Fire fighting - Underground water tank(CMD):	As per norms
	Fire fighting - Overhead water tank(CMD):	As per norms
	Excess treated water	1975
Details of Swimming pool (If any)	-	

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:**	1.8 to 5.8 m
	Size and no of RWH tank(s) and Quantity:	RWH tanks – 11 Nos, Capacity 966 Cum
	Location of the RWH tank(s):	Below Ground
	Quantity of recharge pits:	48 Nos.
	Size of recharge pits :	6 m X 1.5 m X 4 m
	Budgetary allocation (Capital cost) :	Rs. 222 Lakh
	Budgetary allocation (O & M cost) :	Rs. 11 Lakh / year
	Details of UGT tanks if any :	Below Ground
35.Storm water drainage	**Natural water drainage pattern:**	Open Channel Drain
	Quantity of storm water:	14,061.66 m3/hr
	Size of SWD:	450-900 Wide Channel Drain (Depth Varying)

Sewage and Waste water	**Sewage generation in KLD:**	3130 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	3245 KLD
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	Rs. 649 Lakh
	Budgetary allocation (O & M cost):	Rs. 130 Lakh/yr

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	23629 m3
	Disposal of the construction waste debris:	Construction debris will be disposed as per the municipal norms
Waste generation in the operation Phase:	**Dry waste:**	4981 kg/d
	Wet waste:	7472 kg/d
	Hazardous waste:	-
	Biomedical waste (If applicable):	-
	STP Sludge (Dry sludge):	31 KLD
	Others if any:	-
Mode of Disposal of waste:	**Dry waste:**	Authorized recycler
	Wet waste:	Mechanical composting
	Hazardous waste:	NA
	Biomedical waste (If applicable):	-
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	E-waste shall be disposed through Authorized vendor
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	250 m2
	Area for machinery:	256 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 320 Lakh
	O & M cost:	Rs. 128 Lakh/yr

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		Not applicable			
Capacity of the ETP:		Not applicable			

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	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 :**	23,639 Sq.mt
	No of trees to be cut :	1468 Nos. (Out of this 119 Nos. part Tree NOC received)
	Number of trees to be planted :	4404 Nos.
	List of proposed native trees :	As Mentioned Below
	Timeline for completion of plantation :	Within Two years after construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shirish	244	Shady tree, yellowish green fragrant flowers
2	DELONIX REGIA	Gulmohar	213	Red flowering Medium Sized tree
3	FICUS RELIGIOSA	Pimpal	164	Large evergreen tree.
4	AZADIRACHTA INDICA	Neem	270	Semi-evergreen tree with medicinal value
5	AGELE MARMELOS	bel	334	small to medium-sized tree with medicinal and spiritual value
6	DALBERGIA SISSOO	kadipatta	334	Butterfly host plant. Fruit bearing tree
7	Pongamia pinnata	Karanj	269	Shady tree.

8	Bombax ceiba	Katesavar	216	Large tree, red flowers.
9	Anthocephallus cadamba	Kadamb	234	Shady, large tree, ball shaped flowers.
10	Cassia fistula	Bahava	215	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
11	Mimusops elengi	Bakul	262	Shady tree, small white fragrant flowers
12	Nyctanthes arbor-tristis	Parijatak	253	Small deciduous fast growing tree, beautiful flowrers.
13	Erythrina indica	Pangara	287	Medium sized deciduous tree. Bright scarlet flowers.
14	Michelia champaca	Son chafa	355	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
15	Bauhinia racemosa	Apta	367	Small tree with small white flowers, Butterfly host plant
16	Lagerstroemia flos-regineae	Tamhan	330	State flower tree of Maharashtra Medium sized tree, beautiful purple 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	-	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	600 KW
	DG set as Power back-up during construction phase	750 KVA
	During Operation phase (Connected load):	77 MW
	During Operation phase (Demand load):	29 MW
	Transformer:	35 x 1000 kVA; 2x 630 kVA
	DG set as Power back-up during operation phase:	3x 1010 kVA; 4x 750 kVA; 2 X 1600 KVA
	Fuel used:	HSD Diesel
	Details of high tension line passing through the plot if any:	-

48.Energy saving by non-conventional method:

Solar Hot Water system for Residential Building
Solar lighting in landscape , common area passages

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• Natural shading through elevation features to minimize heat gain and reduce air-conditioning requirement • Use of low-e glass to reduce power requirement • Solar lighting in common areas, garden and road • Solar hot water for residential buildings • Energy efficient lighting fixtures (LED lights) to all buildings	>20%

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. 300 Lakh
	O & M cost:	Rs. 15 Lakh/yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	25
2	Site sanitation and Potable Water Supply to Labour	-	18
3	Environmental Monitoring	-	4
4	Health check-up & first aid	-	9
5	Safety Personal Protective Equipment	-	25
6	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	-	12
7	Safety nets	-	35
8	Storm water Management (SWD along plot boundary and Sedimentation Pits)	-	8
9	Tyre cleaning and Vehicle maintenance	-	6
10	Safety Training to Workers (Twice in Year), Safety Officer	-	10
11	Disinfection	-	7

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)	-	649	130
2	Solar System	-	300	15
3	Rainwater harvesting	-	222	11
4	Solid Waste Composting plant	-	320	128
5	Landscape	-	236	35
6	Environmental Monitoring	-	-	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:	-
Parking details:	**Number and area of basement:**	55,071.68 m2
	Number and area of podia:	72,449.93 m2
	Total Parking area:	1,57,655 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	4896 Nos.
	Number of 4-Wheelers as approved by competent authority:	6453 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	9 to 12 m
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	30-12-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

Environment Clearance for Proposed Amendment & Expansion in Residential and Commercial Project At Plot Bearing Survey No. 7/1, 7/2, 7/3, 7/4, 7/5, 7/6, 7/7, 7/8, 7/9, 7/10, 7/11, 7/12, 7/13, 7/14, 8/1, 8/2, 8/3, 8/4, 8/5, 8/6 ,8/7, 8/8, 8/9, 8/10, 8/11, 8/12, 8/13, 8/14, 8/15, 8/16, 8/17, 8/18, 8/19 ,8/20, 8/21, 8/22, 8/23, 8/24, 8/25, 8/26, 8/27, 8/28, 8/29, 8/30, 8/31, 8/32, 8/33, 8/34, 8/35, 8/36, 8/37, 8/38, 8/39, 8/40, 8/41, 8/42, 9/1, 9/2, 9/3, 9/4, 9/5, 9/6, 9/7, 9/8, 9/9, 9/10, 9/11, 9/12, 9/13, 9/14, 9/15 ,9/16 Balkum by Mr. Shiju Bhaskar ; Piramal Estates Pvt. Ltd.

Representative of PP was present during the meeting along with environmental consultant M/s Mahabal Enviro Engineers Pvt.Ltd.PP informed that, they have received Environmental Clearance from Ministry of Environment and Forests vide letter dated 23.06.2015 forthe project having plot area of 1,29,000 Sq.mt and the total construction area 4,18,898 Sq.mt (FSI area of 1,81,519 Sq.mt). PP further stated that, they have started the construction work & till date 40,700 Sq.mt construction done on site.PP further informed that, the project under consideration is for amendment and expansion in EC due to additional TDR availabilitychange in planning.

PP informed that now, as per amendment the total plot area of the project is 1,29,000 Sq. mt. having total construction area 6,32,593 Sq. mt.(FSI-2,40,871 Sq. mt.+ NON FSI-3,91,722 Sq. mt.).

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, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

After discussion, ToR presented by PP was approved with following additional ToR

Specific Conditions by SEAC:

1) Committee noted that, there is change in CS especially in proposed built up area submitted by PP. PP to revise the CS in accordance to presentation made before committee.
2) PP to submit compliance of Construction & Demolition waste management
3) PP to submit comparative statement regarding assessment of Environment Impact as per earlier EIA, Actual and impact due to proposed expansion.
4) PP shall operate and maintain Environmental Management Facilities (EMF) including STP & fire- fighting system for 5 years after giving possession and shall also generate corpus fund for next 5 years.
5) PP to submit wind analysis, traffic analysis, light and ventilation analysis and measures to reduce heat island effect, shadow analysis reports & also upload on website.
6) PP to ensure that, there will be no discharge of treated or untreated waste water in the river.
7) PP to submit project specific DMP.
8) PP to submit & upload the design & cross section of STPs indicating 40% area open to sky for adequate ventilation.
9) PP to ensure that RG required is as per the norms and should be on Mother Earth.
10) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project
11) PP to also refer standard ToR published by MoEF vide order dated 10/04/15 in addition to above.

FINAL RECOMMENDATION

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

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

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

Environment Clearance for Application for Environmental Clearance at 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 by M/s. R R Kalyankar Constructions Pvt. Ltd.

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. They have received Location Clearance (LC) on 11th September, 2014 and renewed on 31st March, 2018 for Special Township Project for land admeasuring about 46.94 Ha. And also received LOI from Collector of Raigad on 25.04.2017. PP further stated that, they have received Terms of Reference (TOR) from MoEF & CC, Delhi vide letter dated 20thJuly, 2017.

PP stated that, the project under consideration is having the total plot area 4,69,454.81 sq. m. with total construction area 11,79,067.80Sq. mt. (FSI- 798018.55 Sq.mt). PP stated that, the project will have 5 Phases.

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, form 1, 1A,EIA, presentation & plans submitted are taken on the record.

DECISION OF SEAC

As the project is Integrated Township Project. Committee decided to apprise the project EIA chapter wise in the presence of all experts of committee hence, the project will be considered in next meeting.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Residential cum commercial project'narayani dham' On land bearing S No 4/1/1,4/1/2,4/1/3,4/3/1,4/3/2,69/1/5 At Village Bhadvad, Taluka Bhiwandi, Dist Thane By Maya Developer and Narayani Associates

Is a Violation Case: No

1.Name of Project	NARAYANI DHAM
2.Type of institution	Private
3.Name of Project Proponent	Mr. Jeetendra Ochhani
4.Name of Consultant	Enviro Analysts & Engineers Pvt. Ltd. B-1003, Enviro House, 10th floor. Western Edge-II, W.E Highway. Borivali(E),Mumbai-400066
5.Type of project	Residential cum commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. N0. 4/1/1, 4/1/2, 4/1/3, 4/3/1, 4/3/2, 69/1/5 at Village: Bhadvad, Taluka: Bhiwandi, District: Thane.
9.Taluka	Bhiwandi
10.Village	Bhadvad
Correspondence Name:	M/S MAYA DEVELOPERS
Room Number:	Flat no 2
Floor:	-
Building Name:	Smruti building
Road/Street Name:	Near Mirani Nagar
Locality:	Kopri colony
City:	Thane (East)
11.Area of the project	Bhiwandi-Nizampur City Municipal Corporation (BNCMC)
12.IOD/IOA/Concession/Plan Approval Number	CC Received dated 10/8/2018
	IOD/IOA/Concession/Plan Approval Number: 2373
	Approved Built-up Area: 15597.30
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	CC Received dated 10/8/2018
15.Total Plot Area (sq. m.)	18790.0 Sq.m.
16.Deductions	Proposed Road: 246.95 Sq.m. & RG : 2,781.46 Sq.m.
17.Net Plot area	15761.59 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 32417.49
	b) Non FSI area (sq. m.): 21480.58
	c) Total BUA area (sq. m.): 53898
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 15597.30
	Approved Non FSI area (sq. m.): 12,123.20
	Date of Approval: 18-04-2018
19.Total ground coverage (m2)	3438.38
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19 %
21.Estimated cost of the project	1113500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1	St(P)+14	46.0
2	Building 2 to 6	St +14	43.65
3	Building 7	St +13	40.75

23.Number of tenants and shops	Tenements: 650 Nos Shops: 12 Nos Office : 10 Nos
24.Number of expected residents / users	Residential : 2887 Nos. , Shops and offices : 128 Nos.
25.Tenant density per hectare	346
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.0 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9.0 m
29.Existing structure (s) if any	Existing building (Gr+3 floor)
30.Details of the demolition with disposal (If 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**	BNMC/ Treated water from STP
	Fresh water (CMD):	262
	Recycled water - Flushing (CMD):	133
	Recycled water - Gardening (CMD):	23
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	418
	Fire fighting - Underground water tank(CMD):	525
	Fire fighting - Overhead water tank(CMD):	140
	Excess treated water	164
Wet season:	**Source of water**	BNMC
	Fresh water (CMD):	262
	Recycled water - Flushing (CMD):	133
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	399
	Fire fighting - Underground water tank(CMD):	525
	Fire fighting - Overhead water tank(CMD):	140
	Excess treated water	187
Details of Swimming pool (If any)	-	

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:**	2.5 m
	Size and no of RWH tank(s) and Quantity:	-
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	8 nos
	Size of recharge pits :	5 Sq m area for each recharge pit
	Budgetary allocation (Capital cost) :	6.4 Lakh
	Budgetary allocation (O & M cost) :	0.64 Lakh/ Year
	Details of UGT tanks if any :	Domestic water: Building 1:45 Cum., Building 2, 3, 5 & 6: 35 Cum., Building 4: 40 Cum., Building 7: 37 Cum., Existing Building: 3 Cum., Total: 262 Cum. Flushing Water: Building 1:24 Cum., Building 2, 3, 5 & 6: 17 Cum., Building 4: 20 Cum., Building 7: 19 Cum. Existing Building: 1 Cum. Total: 134 Cum. Total Firefighting Water: 525 Cum. (UG Tanks)
35.Storm water drainage	**Natural water drainage pattern:**	North west to South east
	Quantity of storm water:	1.1 m3/sec
	Size of SWD:	Width: 0.6m & depth: 0.6m
Sewage and Waste water	**Sewage generation in KLD:**	356
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. of 155 Cum.& 1 no. of 225 Cum.
	Location & area of the STP:	Location : On Ground Total STP Area: 270 Sq.m.
	Budgetary allocation (Capital cost):	50 Lakh
	Budgetary allocation (O & M cost):	12 Lakh/ Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Empty cement bags: 21,560 Nos., Aggregates: 6.5 MT, Broken Tiles: 875 Sq.m., Steel: 3.2 MT, Empty Paint Cans (20 litre/ can): 809 Nos.
	Disposal of the construction waste debris:	Empty cement bags: To be handed over to local recyclers, Aggregates: To be used as a layer for internal roads and building boundary wall, Broken Tiles: Waste tiles to be used as china mosaic for terraces, Empty Paint Cans (20 litre/ can): To be sold to local recyclers
Waste generation in the operation Phase:	**Dry waste:**	597 Kg/day
	Wet waste:	876 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	19 Kg/day
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to Local Recyclers
	Wet waste:	Processed in OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dry sludge will be used as manure
	Others if any:	-
Area requirement:	**Location(s):**	Ground Floor
	Area for the storage of waste & other material:	42 Sq m
	Area for machinery:	3.0 Sq m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	8.0 Lakh
	O & M cost:	2.3 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 :**	4721.0 Sq m
	No of trees to be cut :	-
	Number of trees to be planted :	157
	List of proposed native trees :	As below
	Timeline for completion of plantation :	As soon as construction work completed.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mimusops elengi	Bakul	12	Medicinal values
2	Azadiracta Indica	Neem	6	Medicinal values
3	Neolamarckia cadamba	Kadamb	13	Medicinal values
4	Alstonia scholaris	Satvin	12	Medicinal values
5	Wodyetia bifurcata	Foxtail Palm	20	Beautification
6	Callistemon	Bottle Brush	13	Attracts Birds
7	Cassia Fistula	Bahava	12	Medicinal values
8	Spathodea campanulata	Spathodea	12	Medicinal values
9	Saraca asoca	Ashok	12	Evergreen
10	Terminalia catappa	Badam	12	Edible Fruits
11	Grevillea robusta	Silver Oak	12	Medicinal values
12	Delonix regia	Gulmohar	9	Beautification
13	Peltophorum pterocarpum	Sonmohar	12	Beautification
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 :**	Torrent
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	7815 kW
	During Operation phase (Demand load):	1566 kW
	Transformer:	2 nos. of 1000 KVA
	DG set as Power back-up during operation phase:	1 no X 400 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	-

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Saving	14.0%

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:**	38.0 Lakh
	O & M cost:	1.5 Lakh/Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water for dust Suppression	2
2	EHS	Site Sanitation	2

3	Environmental Monitoring	Environmental Monitoring	15
4	EHS	Disinfection	1.5
5	EHS	Health Check Up	1.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	STP	50.0	12.0
2	Water Environment	Rain Water Harvesting	6.4	0.64
3	Energy	Solar System	18.0	0.72
4	Solid Waste Management	OWC	8.0	2.3
5	Land Environment	Landscaping	10.0	1.0

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	Na
	Total Parking area:	4800 sq.m.
	Area per car:	On Ground: 23 Sq. m. and for stilt: 28 Sq. m.
	Area per car:	On Ground: 23 Sq. m. and for stilt: 28 Sq. m.
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	Required: 164 Nos. Proposed : 180 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	6.0 m to 9.0m wide
	CRZ/ RRZ clearance obtain, if any:	-
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	-
	Category as per schedule of EIA Notification sheet	8 (a)Category'B'
	Court cases pending if any	-
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	23-05-2018

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

Environment Clearance for Residential cum commercial project'narayani dham' On land bearing S No 4/1/1,4/1/2,4/1/3,4/3/1,4/3/2,69/1/5 At Village Bhadvad, Taluka Bhiwandi, Dist Thane By Maya Developer and Narayani Associates

Representative of PP was present during the meeting along with environmental consultant M/s Enviro Analysts & Engineers Pvt.Ltd.

PP submitted their application for prior Environmental clearance for total plot area of 18,790.0 Sq. Meters., Total BUA of 53,898.07Sq. Mtrs(FSI- 32,417.49 Sq. mt.+ NON FSI-21,480.58Sq.mt.).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

In view of above, the proposal is deferred and shall be considered only after the compliance of above observations.

Specific Conditions by SEAC:

1) Committee noted that, there is no water supply, no existing sewer line, storm water line, PP to ensure that no possession shall be given before completion of the sewer lines and permission for the connection to the same by the competent authority. Local body to ensure the same. Local body to also ensure that no commencement & occupation certificate is given to the project until sewer lines and storm water is developed and connected to the project.
2) PP to submit Contour and slope analysis super imposed with storm water drain, sewer line map in the project and 500 mtr around the project.
3) PP to submit storm water management plan with detail calculations.
4) PP to submit & upload CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project.

FINAL RECOMMENDATION

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

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for OCEANA BY M/s. Sai Siddhi and Amrut Laxmi developers at Plot S No. 42; 43/1A; 53/1, 53/2, 53/3, 53/4B, AT Village Pale, AMBERNATH, District THANE.

Is a Violation Case: No

1.Name of Project	OCEANA M/s. Sai Siddhi and Amrut Laxmi developers at Plot S No. 42; 43/1A; 53/1, 53/2, 53/3, 53/4B, AT Village Pale, AMBERNATH, District THANE.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Naveen Bansal by M/s. Sai Siddhi and Amrut Laxmi developers
4.Name of Consultant	Mr. H. K. Desai. Enviro Analysts & Engineers Pvt. Ltd. B-1003, Enviro House, 10th floor. Western Edge-II, W.E Highway. Borivali (E), Mumbai-400066.
5.Type of project	Housing and commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot S No. 42; 43/1A; 53/1, 53/2, 53/3, 53/4B, 53/4C, 53/4D; 54/1, 54/2A, 54/2B. AT VILLAGE PALE, AMBERNATH, District THANE.
9.Taluka	Ambernath
10.Village	Pale
Correspondence Name:	Mr. Naveen Bansal
Room Number:	NA
Floor:	NA
Building Name:	Plot No. 516 Sarang Apartment
Road/Street Name:	NA
Locality:	Near Shani Mandir, Ambernath East 421501
City:	THANE
11.Area of the project	Kulgaon Badlapur Municipal council
12.IOD/IOA/Concession/Plan Approval Number	yes
	IOD/IOA/Concession/Plan Approval Number: IOA AMC/NRVBP/16-17/1565- 8691/81
	Approved Built-up Area: 66958.071
13.Note on the initiated work (If applicable)	NO
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	yes
15.Total Plot Area (sq. m.)	44,030.87 sq m
16.Deductions	For, 1. D. P. road 24m wide: 8417.659 sq m 2. Site 187 (health centre): 12400.00 sq m 3. Site 186 (centre for handicapped): 309.924 sq m Total: 21127.58 sq m Net Plot area: 22903.29 sq m Net Plot area (deduction for amenity space)- 1145.164 sq m Net plot area plus addition for health care centre 21758.12+12400.00 = 34158.12 sq m
17.Net Plot area	30742.308 sq m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 66882.31
	b) Non FSI area (sq. m.): 30156.81
	c) Total BUA area (sq. m.): 97039.12
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 66985.071
	Approved Non FSI area (sq. m.): 30156.81
	Date of Approval: 30-01-2017
19.Total ground coverage (m2)	30696.54
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50

21.Estimated cost of the project	2606469300

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1	Gr + St. + 20	54.60
2	Building 2	Gr + St. + 20	54.60
3	Building 3	St+ 20 floors	54.60
4	Building 4	St+ 3 FLOORS	11.85
5	Building 5	St. + 20 floors	54.60
6	Building 6	St. + 20 floors	54.60
7	Building 7	Gr+ St. + 20 floors	54.60
8	Building 8	Gr + St. + 20 floors	54.60
9	Building 9	Gr. + St.+ 15 floors	46.05
10	Building 10 (health centre)	Gr. + 3 floor	15.20
11	Club House	Ground floor	5.05

23.Number of tenants and shops	Residential: 2117 nos. Shops: 80 nos.
24.Number of expected residents / users	Residential: 9188 nos. Commercial: 522 nos.
25.Tenant density per hectare	460 tenant/hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 m wide D. P road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m wide
29.Existing structure (s) if any	No
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Maharashtra Jeevan Pradhikaran + Recycled water
	Fresh water (CMD):	840 KLD
	Recycled water - Flushing (CMD):	424 KLD
	Recycled water - Gardening (CMD):	4 KLD
	Swimming pool make up (Cum):	1 KLD
	Total Water Requirement (CMD) :	1269 KLD
	Fire fighting - Underground water tank(CMD):	750 KLD
	Fire fighting - Overhead water tank(CMD):	100 KLD
	Excess treated water	612 KLD
Wet season:	**Source of water**	Maharashtra Jeevan Pradhikaran + Recycled water
	Fresh water (CMD):	840 KLD
	Recycled water - Flushing (CMD):	424 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	1 KLD
	Total Water Requirement (CMD) :	1265 KLD
	Fire fighting - Underground water tank(CMD):	750 KLD
	Fire fighting - Overhead water tank(CMD):	100 KLD
	Excess treated water	617 KLD
Details of Swimming pool (If any)	ONE SWMMING POOL	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	-
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	11 nos.
	Size of recharge pits :	L:5m, W:2m, D:2m
	Budgetary allocation (Capital cost) :	Rs. 8 lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.5 lakhs
	Details of UGT tanks if any :	Building 1: 1 no. Building 2: 1 no. Building 4: 1 no. Building 6: 1 no. Building 7 & 8: 1 no. Building 9: 2 nos.
35.Storm water drainage	**Natural water drainage pattern:**	There is no drain passing through the plan
	Quantity of storm water:	0.03 cum/sec
	Size of SWD:	Width: 0.600 m; depth: 0.500m
Sewage and Waste water	**Sewage generation in KLD:**	1096
	STP technology:	MBBR
	Capacity of STP (CMD):	4 nos. Building 1 & 2: 250 KLD; Building 3, 4, 5: 370 KLD; Building 6, 7: 250 KLD; Building 8, 9: 250KLD
	Location & area of the STP:	ground
	Budgetary allocation (Capital cost):	Rs. 80 lakhs
	Budgetary allocation (O & M cost):	Rs. 12 lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Sr. No. Particulars Quantity Unit Disposal 1 Steel 5.8 MT Sand from excavating operations will be used for land leveling and landscaping 2 Aggregates 11.6 MT To be sold for recycling 3 Empty cement bags(50kg capacity) 38800 Bags To be sold to vendors. 4 Broken Tiles 1809 Sq. m To be used water proofing for terraces. 5 Glass - - To be sold for recycling 6 Empty Paint cans (20 lit) 1455 Nos. To be sold to vendors. 7. Excavation quantity due to foundation, STP etc. 7000 cum
	Disposal of the construction waste debris:	Construction waste will be used within project only. Unusable and excess construction debris will be disposed at designated places as per local permission.
Waste generation in the operation Phase:	**Dry waste:**	1838 kg/day
	Wet waste:	2756 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	64 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to recyclers.
	Wet waste:	Biodegradable waste will be processed in OWC and manure so obtained will be used for landscaping
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	WILL BE USED AS MANURE
	Others if any:	NA
Area requirement:	**Location(s):**	GROUND
	Area for the storage of waste & other material:	-
	Area for machinery:	120 sq m (2 nos. OWC)
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	RS. 20 lakhs
	O & M cost:	Rs. 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 :**	4916.67 sq m
	No of trees to be cut :	NA
	Number of trees to be planted :	245 nos.
	List of proposed native trees :	as given below
	Timeline for completion of plantation :	before completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	SAMANIA SAMEN	MONKEY POD TREE	25	Flowering
2	BAHUNIA BLAKEANA	HONG KONG ORCHID	20	legume tree
3	MIMUSOPS ELENGI	Spanish cherry	20	tropical and evergreen
4	BISMARCKIA PALM	Bismarckia	30	flowering
5	ARECA CATECHU	Beetle Tree	10	flowering
6	DELONIX REGIA	Royal poinciana	20	tropical flowering
7	MAHUA LONGIFOLIA	mahua	20	flowering
8	CASSIA FISSULA	golden showering	15	flowering
9	CASSIA JAVANICA	pink shower	15	flowering
10	AZADIRACHTA INDICA	Neem	5	medicinal
11	MILLINGTONIA HORTENSIS	indian Cork tree	5	tropical flowering
12	Delonix regia	flame of forest	5	flowering
13	MANILKARA ZAPOTA	sapodilla	10	flowering
14	SYZYGIUM CUMINI	java pulm	10	tropical
15	ARTOCARPUS HETEROPHYLLUS	jackfruit	10	tropical
16	MORINGA OLEIFERA	Drumstick tree	10	flowering
17	SYZYGIUM SAMARANGENSE	Java apple	10	flowering
18	MANGIFERA INDICA	Mango	5	tropical and flowering
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)	80kW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	9235.02 kW
	During Operation phase (Demand load):	3679.10 kW
	Transformer:	6 X 630 kVA
	DG set as Power back-up during operation phase:	Residential: 3X 125 KVA Common utilities: 1 X 125 KVA Power failure 1X320 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- ENERGY EFFICIENT LAMPS APPLIANCES.
- USE OF LED LIGHTS FOR GROUND FLOOR AND EXTERNAL LIGHTING
- BY USING GROUP CONTROL AND VFD FOR LIFTS AND BEE5 STAR RATED MOTORS FOR PUMPS
- BY USING EFF1 MOTORS FOR FANSAND PUMPS IN STP
- BY USING ENERGY RENEWABLE ENERGY SYSTEMS.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total % Savings	11
2	Total % Solar Savings	4

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. 45 lakhs
	O & M cost:	Rs. 2 lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	3

2	Noise Environment	Noise Barricades and Green Belt Developments	2
3	Water Environment	Modular STP, Drainage with sedimentation tanks	2
4	Good Health Practices	Site Sanitation & Health Care	1.5
5	Environment Monitoring	Air, water, noise soil monitoring during construction phase	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	Rain Water Harvesting	RHW tanks	8	0.5
2	Solid waste management	OWC	20	3
3	Waste water management	STP	80	12
4	Energy conservation	SOLAR	45	2
5	Landscaping	GREEN BELT	15	1.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	8699.20 sq m
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	Scooters: 1929 nos. Cycles: 1929 nos.
	Number of 4-Wheelers as approved by competent authority:	170 nos.
	Public Transport:	Thane Municipal Transport
	Width of all Internal roads (m):	7.75 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.	Yes
	Date of online submission	23-05-2018

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 Mr. Priyash Chawdhari was present during the meeting along with environmental consultant M/s Enviro Analysts & Engineers Pvt.Ltd.

PP submitted their application for prior Environmental clearance fora new residential cum commercial project having total plot area of44,030.87 sq mt, Total BUA of 1,38,456.01Sq. Mtrs(FSI- 96,528.04 Sq. mt.+ NON FSI- 41,927.35 Sq.mt.). The building configuration is for Buildings - 1, 2, 3, 4, 5, 6, 7, 8, 9- St. / Gr + 20 floorsand for Building No 10 - St. / Gr. + 3 floors.

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

In view of above, the proposal is deferred and shall be considered only after the compliance of above observations

Specific Conditions by SEAC:

1) PP to submit & upload the copy of acknowledgement for plan (full potential) submitted to local planning authority.
2) Committee noted that, there is change in CS especially in serial no 18a. PP to revise the CS as presented during the meeting.
3) PP to submit & upload the copy of agreement between MPCB & SMS Company regarding biomedical waste disposal. and letter from SMS Company stating that they have sufficient capacity to dispose off biomedical waste received from the project.
4) PP to submit Ventilation analysis, Shadow analysis, wind analysis report.
5) PP shall operate and maintain Environmental Management Facilities (EMF) including STP & fire- fighting system for 5 years after giving possession and shall also generate corpus fund for next 5 years.
6) For Ground water drawling, PP to follow the procedure laid by MoEF & CC vide Office Memorandum dated 2nd November, 2018.
7) Committee noted that, the RG area is shown on hatched area, which is not in the PP's possession & also not considered in total plot area of the project. Therefore, PP to submit the revised calculation & plan for RG area.
8) PP to submit revised traffic circulation plan showing clear drive way.
9) PP to submit Contour and slope analysis super imposed with storm water drain, sewer line map in the project and 500 mtr around the project.
10) PP to submit & upload CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project.

FINAL RECOMMENDATION

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

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Revalidation of EC for Residential Project "Vihang Valley" at village Owale , Thane (W) proposed by Vihang Infrastructure Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Vihang Infrastructure Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Yogesh Chandegala ; M/s. Vihang Infrastructure Pvt. Ltd.
4.Name of Consultant	Dr. D. A. Patil ; Mahabal Enviro Engg. Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Revalidation of EC-- Residential Developement project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Revalidation of earlier EC, EC received letter no. SEAC-2010/CR 716/TC.2 dated 25th May 2011.
8.Location of the project	Survey No. 69/1, 3A, 5, 74/1/3, 1/1, 1/2, 2A, 2B, 3, 4, 5, 75/1, 2, 77/1, 2, 78/1, 3A, 3B, 4 at village Owale, Thane
9.Taluka	Thane
10.Village	Owale
Correspondence Name:	Mr Yogesh Chandegala
Room Number:	-
Floor:	12 th floor
Building Name:	Dev corpora
Road/Street Name:	Cadbury Junction , Eastern Express Highway
Locality:	Khopat
City:	Thane (W) 400601
11.Area of the project	Thane Municipal Corporation (TMC)
12.IOD/IOA/Concession/Plan Approval Number	V.P. No. 2008/37/TMC/TD-DP/TPS/170 dated 31/10/2013
	IOD/IOA/Concession/Plan Approval Number: V.P. No. 2008/37/TMC/TD-DP/TPS/170 dated 31/10/2013
	Approved Built-up Area: 55509.63
13.Note on the initiated work (If applicable)	Yes construction Work is carried out as per EC received (F.S.I. area 44,943.15m2, Non F.S.I : 10566.48 m2 ,Total Construction Area : 55509.63 m2)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	V.P. No. 2008/37/TMC/TD-DP/TPS/170 dated 31/10/2013
15.Total Plot Area (sq. m.)	62,260.00 m2
16.Deductions	28,267.40 m2
17.Net Plot area	33,992.60 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 85,186.59 m2
	b) Non FSI area (sq. m.): 48,480.57 m2
	c) Total BUA area (sq. m.): 133667.16
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 44943.15
	Approved Non FSI area (sq. m.): 10566.48
	Date of Approval: 31-10-2013
19.Total ground coverage (m2)	13364 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	39.00%
21.Estimated cost of the project	1500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Type A (6 Nos. Bldg)	St+7 Up	24
2	Type B (4 Nos. Bldg)	St+7 Up	24
3	Type C (5 Nos. Bldg)	B+ St+P+27 Up	92
4	Type V (6 nos. Bldg)	St+2P+17 Up	58
5	Type D (6 nos. Bldg)	St + 20Up	61
6	Club House (1 Bldg)	Gr+1F	8
7	-	-	-

23.Number of tenants and shops	Flats: 1794 Nos, Shops :10 Nos,
24.Number of expected residents / users	9090
25.Tenant density per hectare	528/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The project site is accessible by Ghodbunder Road and 30 m wide 40 m wide D. P. Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6m and 9m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	TMC
	Fresh water (CMD):	809
	Recycled water - Flushing (CMD):	407
	Recycled water - Gardening (CMD):	53
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	1216
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	503
Wet season:	**Source of water**	TMC
	Fresh water (CMD):	809
	Recycled water - Flushing (CMD):	407
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	1216
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	556
Details of Swimming pool (If any)	-	

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:**	approximate 10m
	Size and no of RWH tank(s) and Quantity:	27 nos of RWH tank with capacity of 405 KL
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	30 nos
	Size of recharge pits :	1.5 X 1.5 m
	Budgetary allocation (Capital cost) :	Rs. 45 lacs
	Budgetary allocation (O & M cost) :	Rs. 4 Lacs/year
	Details of UGT tanks if any :	UG Tanks will be provided as per NBC norms
35.Storm water drainage	**Natural water drainage pattern:**	The slope of the area is towards North side
	Quantity of storm water:	2296.4 m3/hr
	Size of SWD:	0.4 m X 0.45m, 1.2m X 1.2 m , 0.6m X 0.6m, 0.5m X0.45m
Sewage and Waste water	**Sewage generation in KLD:**	973 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	2 STP of Total 1200 CMD capacity
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	Rs.140 Lacs
	Budgetary allocation (O & M cost):	Rs. 15 Lacs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris: : 3881 m3
	Disposal of the construction waste debris:	The construction debris will be utilized at project site for paving and land leveling.
Waste generation in the operation Phase:	**Dry waste:**	2705 Kg/d
	Wet waste:	1804 Kg/d
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	10 m3/day
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	Waste will be segregated at source. The recyclable waste will be handed over to the authorized vendor.
	Wet waste:	Biodegradable waste will be treated in Organic Waste Converter.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	-
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	100 m2
	Area for machinery:	60 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 25 Lacs
	O & M cost:	Rs. 12 Lacs/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	R.G. Area Provided : 10,562.09m2
	No of trees to be cut :	0 Nos.
	Number of trees to be planted :	620 Nos.
	List of proposed native trees :	As mentioned below
	Timeline for completion of plantation :	Will be planted 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	Azadiracta indica	Neem	73	Large tree, good for roadside plantation
2	Albizia lebbeck	Shirish	80	Shady tree, yellowish green fragrant flowers
3	Cassia fistula	Bahava	60	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
4	Erythrina indica	Pangara	85	-
5	Plumeria alba	Chapha	20	-
6	Coconucifera	Coconut Tree	142	-
7	Areca Catechus	Supari	160	-
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):	11 MW
	During Operation phase (Demand load):	6.8 MW
	Transformer:	--
	DG set as Power back-up during operation phase:	Total 1700kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

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	Energy saving using solar hot water and energy efficient lighting	>20%

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. 70 Lacs
	O & M cost:	Rs.4 Lacs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	2.5
2	Site sanitation and Potable Water Supply to Labour	-	5.0
3	Environmental Monitoring	-	3.0
4	Health check-up & first aid	-	2.0

5	Safety Personal Protective Equipment	-	8.0
6	Traffic Management	Sign Boards, Persons at entry exit and Parking area	2.5
7	Tyre cleaning and Vehicle maintenance	-	1.5
8	Safety Training to Workers	-	3.0
9	Solid waste Management &site Maintenance activity	-	2.5
10	Disinfection	-	1.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	-	140	15
2	Solar System	-	70	4
3	Rainwater harvesting	-	45	4
4	Solid Waste Composting plant	-	25	12
5	Landscape	-	60	7

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	1 BAsement with total 8973.40 m2 area
	Number and area of podia:	Total podium area: 15,843.75 m2
	Total Parking area:	24,817.15 m2
	Area per car:	28.5 m2
	Area per car:	28.5 m2
	Number of 2-Wheelers as approved by competent authority:	1291 nos.
	Number of 4-Wheelers as approved by competent authority:	1015 nos.
	Public Transport:	-
	Width of all Internal roads (m):	6 m and 9 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Project site is located at 0.5 km distance from sanjay Gandhi National park
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	Total water requirement 1216kld
Waste Water Treatment	ewage and waste water 973 KLD Sewage generation in KLD MBBR STP technology 2 STP of Total 1200 CMD capacity No. and Capacity of STP Ground Location of the STP Rs.140 Lacs Budgetary allocation (Capital cost for STP) Rs. 15 Lacs/year
Drainage pattern of the project	Storm water drainage The slope of the area is towards North side Natural water drainage pattern 2296.4 m3/hr Quantity of storm water 0.4 m X 0.45m, 1.2m X 1.2 m , 0.6m X 0.6m, 0.5m X0.45m Size of SWD
Ground water parameters	approximate 10m

Solid Waste Management	Waste Geneated in the Pre Construction & Construction phase: Construction Debris: : 3881 m3 Waste generation The construction debris will be utilized at project site for paving and land leveling. Disposal of the construction waste debris Waste generation in operation Phase: 2705 Kg/d Dry waste 1804 Kg/d Wet waste NA Hazardous waste NA Biomedical waste (If applicable) 10 m3/day STP Sludge - Others if any Mode of Disposal of waste: Waste will be segregated at source. The recyclable waste will be handed over to the authorized vendor. Dry waste Biodegradable waste will be treated in Organic Waste Converter. Wet waste NA Hazardous waste NA Biomedical waste (If applicable) Sludge use as manure for gardening STP Sludge (Dry sludge) - Others if any Area requirement: Ground Location (s) 100 m2 Area for the storage of waste & other material 60 m2 Area for machinery Rs. 25 Lacs Budgetary allocation (Capital cost and O & M cost) Capital Cost: Rs. 12 Lacs/year O & M Cost
Air Quality & Noise Level issues	-
Energy Management	Energy Power requirement: 1 Source of power supply MSEDCL 2 During Construction Phase: (Demand Load) 200 kVA 3 DG set as Power back-up during construction phase 200 kVA 4 During Operation phase, Connected Load Demand Load 11 MW 6.8 MW 5 Transformer -- 6 DG set as Power back-up during operation phase Total 1700kVA 7 Fuel used Diesel 8 Details of high tension line passing through the plot if any No Energy saving by non-conventional method: Normal text BoldItalicUnderline
Traffic circulation system and risk assessment	-
Landscape Plan	R.G. Area Provided : 10,562.09m2
Disaster management system and risk assessment	-
Socioeconomic impact assessment	-
Environmental Management Plan	Environmental Management plan Budgetary Allocation Construction phase (with Break-up): Sr.No Attributes Parameter Total Cost per annum (Rs. In Lacs) 1 Water spray for dust suppression - 2.5 2 Site sanitation and Potable Water Supply to Labour - 5.0 3 Environmental Monitoring - 3.0 4 Health check-up & first aid - 2.0 5 Safety Personal Protective Equipment - 8.0 6 Traffic Management Sign Boards, Persons at entry exit and Parking area 2.5 7 Tyre cleaning and Vehicle maintenance - 1.5 8 Safety Training to Workers - 3.0 9 Solid waste Management &site Maintenance activity - 2.5 10 Disinfection - 1.0 Add More Operation Phase (with Break-up): Sr.No Component Description Capital cost Rs. In Lacs Operational and Maintenance cost (Rs. in Lacs/yr) 1 STP (Tertiary) - 140 15 2 Solar System - 70 4 3 Rainwater harvesting - 45 4 4 Solid Waste Composting plant - 25 12 5 Landscape
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC

Environment Clearance for Revalidation of EC for Residential Project "Vihang Valley" at village Owale , Thane (W) proposed by Vihang Infrastructure Pvt. Ltd.

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

PP informed that, they have received prior Environmental Clearance vide letter dated 25.05.2011 for plot area of 62,260 Sq.mt and total construction area of 1,33,667.16Sq.mt. PP stated that, total construction completed till date is 55,509.63 sq. m. PP further informed that, the project under consideration is forRevalidation of EC. PP further stated that, there is no deviation in total built up area, building profile and Other Environmental parameters etc.

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

After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA.

Specific Conditions by SEAC:

1) PP to submit the Architect Certificate regarding building wise construction done till date & specifically certifying that, the said construction made so far is strictly in accordance with the earlier EC. And there is no any deviation from the building profile approved in the earlier granted EC.

FINAL RECOMMENDATION

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

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Revalidation of EC for Residential Project "Vihang Hill" at Land bearing S. No 194/1, 194/3, 194/4, 194/8, 194/10 & 194/11 of village Bhayanderpada, Dist.: Thane (W) proposed By Vihang Enterprises

Is a Violation Case: No

1.Name of Project	Residential Project "Vihang Hills"
2.Type of institution	Private
3.Name of Project Proponent	Mr. Yogesh Chandegala ; Vihang Enterprises (formerly known as Yash Enterprises)
4.Name of Consultant	Dr. D. A. Patil; Mahabal Enviro Engg. Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Revalidation of EC- Residential Development Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Revalidation of earlier EC. EC Received Letter no. SEAC-2010/CR651/TC.2 dated 13th June 2011. Amendment in EC letter no. SEAC -2010/CR.651/TC-2 dated 7th July 2011.
8.Location of the project	At Land Bearing S. No 194/1, 194/3, 194/4, 194/8, 194/10 & 194/11 of village Bhayanderpada, Thane(W)
9.Taluka	Thane
10.Village	Bhayanderpada
Correspondence Name:	Mr. Yogesh Chandegala ; Vihang Enterprises
Room Number:	-
Floor:	12th Floor
Building Name:	Dev Corpora
Road/Street Name:	Cadbury Junction, Eastern Express Highway
Locality:	Khopat
City:	Thane (W) 400601
11.Area of the project	Thane Municipal Corporation (TMC)
12.IOD/IOA/Concession/Plan Approval Number	1) V. P. No. S06/0025/08/TMC/TDD/0338/11 Dated 19/01/11 , 2) TMC/TD-DP /TPS /1293/14 dated 04/12/2014
	IOD/IOA/Concession/Plan Approval Number: 1) V.P.No.S06/0025/08/TMC/TDD/0338/11 Dated 19/01/11, 2) TMC/TD-DP /TPS /1293/14 dated 04/12/2014
	Approved Built-up Area: 26308.23
13.Note on the initiated work (If applicable)	Yes construction Work is in progress as per EC received. (F.S.I.area: 16,871.29m2 and Non F.S.I. area: 8191.40 m2 , Total Construction area : 25062.69 m2)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	1) V.P.No.S06/0025/08/TMC/TDD/0338/11 Dated 19/01/11 2) TMC Approved plans : TMC/TD-DP /TPS /1293/14 dated 04/12/2014
15.Total Plot Area (sq. m.)	21,726 m2
16.Deductions	9,960.9 m2
17.Net Plot area	11,765.10 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 34,375.16 m2
	b) Non FSI area (sq. m.): 17,563.52 m2
	c) Total BUA area (sq. m.): 51938.68
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 16,995.29 m2
	Approved Non FSI area (sq. m.): 9312.94 m2
	Date of Approval: 04-12-2014
19.Total ground coverage (m2)	2805 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24 %
21.Estimated cost of the project	2000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Type A1,A2,B1,C1 & D	Stilt +17 up	52.35
2	Type A3	Stilt +16 up	49.45
3	Type E	Stilt +19 up	58.15

23.Number of tenants and shops	Flats: 885 Nos
24.Number of expected residents / users	4425 Nos.
25.Tenant density per hectare	408 /ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The project site is accessible by Ghodbunder 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	Nil
30.Details of the demolition with disposal (If applicable)	Nil

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	TMC
	Fresh water (CMD):	400 KLD
	Recycled water - Flushing (CMD):	199 KLD
	Recycled water - Gardening (CMD):	15 KLD
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	597 KLD
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per CFO norms
	Excess treated water	259 KLD
Wet season:	**Source of water**	TMC
	Fresh water (CMD):	400 KLD
	Recycled water - Flushing (CMD):	199 KLD
	Recycled water - Gardening (CMD):	0 KLD
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	597 KLD
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per CFO norms
	Excess treated water	274 KLD
Details of Swimming pool (If any)	-	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	8-9 m
	Size and no of RWH tank(s) and Quantity:	12 RWH tank with capacity of 90KL
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	15 nos.
	Size of recharge pits :	1.5m X 1.5m
	Budgetary allocation (Capital cost) :	Rs. 15 Lacs
	Budgetary allocation (O & M cost) :	Rs. 2 Lacs/year
	Details of UGT tanks if any :	UG Tanks will be provided as per NBC norms
35.Storm water drainage	**Natural water drainage pattern:**	The slope of the area is towards East side
	Quantity of storm water:	1437.53 m3/hr
	Size of SWD:	400 mm X 700 mm
Sewage and Waste water	**Sewage generation in KLD:**	478 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	2 STP of Total 550 KLD capacity
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	Rs. 60 Lacs
	Budgetary allocation (O & M cost):	Rs. 10 Lacs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris: : 1508 m3
	Disposal of the construction waste debris:	The construction debris is utilized at project site for paving and land leveling.
Waste generation in the operation Phase:	**Dry waste:**	1328 Kg/d
	Wet waste:	885 Kg/d
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	5 m3/day
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	Waste will be segregated at source. The recyclable waste will be handed over to the authorized vendor.
	Wet waste:	Biodegradable waste will be converted to compost using Organic waste converter.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	-
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	70 m2
	Area for machinery:	35 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 16 Lacs
	O & M cost:	Rs. 5 Lacs/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

41.Source of Fuel	Not applicable

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	R.G. Area Provided : 3000.40 m2
	No of trees to be cut :	0 Nos.
	Number of trees to be planted :	220 Nos.
	List of proposed native trees :	As mentioned below
	Timeline for completion of plantation :	Will be planted 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	Alibizia Lebback	Shirish	10	Shady tree, yellowish green fragrant flowers
2	Erthyrina indica	Pangara	20	Medium sized deciduous tree. Bright scarlet flowers.
3	Cassia fistula	Golden shower tree	35	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant.
4	Azadirachta indica	Neem Tree	36	Neem is fast growing tree , used in medicinal purpose.
5	Coco nucifera	Coconut Tree	16	It is large plam growing tall, coconut used in cooking as well as in soap and cosmetics.
6	Areca Catechus	Supari	85	Medium sized and palm tree
7	Plumeria alba	Chapha	18	Fragrant tree, insect attracting
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	125 kVA
	During Operation phase (Connected load):	4.4 MW
	During Operation phase (Demand load):	3.0 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	Total 2 nos. 650 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

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	Energy saving using solar hot water and energy efficient lighting	20.3%

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. 28 Lacs
	O & M cost:	Rs. 2 Lacs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	5.0
2	Site sanitation and Potable Water Supply to Labour	-	6.0
3	Environmental Monitoring	-	2.0

4	Health check-up & first aid	-	2.0
5	Safety Personal Protective Equipment	-	8.0
6	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	-	2.5
7	Tyre cleaning and Vehicle maintenance	-	1.5
8	Safety Training to Workers (Twice in Year), Safety Officer	-	6.0
9	Solid waste Management &site Maintenance activity	-	3.0
10	Disinfection	-	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	60	10
2	Solar System	Weekly	28	2
3	Rainwater harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	15	2
4	Solid Waste Management	Continuous O & M	16	5
5	Landscape	Daily	10	3

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:**	Nil
	Number and area of podia:	Nil
	Total Parking area:	8794.6 m2
	Area per car:	29.8 m2
	Area per car:	29.8 m2
	Number of 2-Wheelers as approved by competent authority:	514 Nos.
	Number of 4-Wheelers as approved by competent authority:	252 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	6 m and 9 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Project site is located at 0.5 km distance from Sanjay Gandhi National Park.
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	Water Budget – Total Water Requirement (Dry season - 597 KLD) & (Wet season - 597 KLD)
Waste Water Treatment	• Sewage generation in KLD: 478 KLD • STP technology: MBBR technology • Capacity of STP (CMD): 2 STP of Total 550 KLD capacity • Location & area of the STP: ground
Drainage pattern of the project	• Natural water drainage pattern: The slope of the area is towards East side • Quantity of storm water: 1437.53 m3/hr • Size of SWD: Width: 400 mm X 700 mm
Ground water parameters	8-9 m

Solid Waste Management	1) Waste generation in the Pre Construction and Construction phase: • Construction Debris: : Construction Debris: : 1508 m3 • Disposal of the construction waste debris: The construction debris is utilized at project site for paving and land leveling. • Waste generation in the operation Phase: • Dry waste: 1328 Kg/d • Wet waste: 885 Kg/d • Hazardous waste: NA • Biomedical waste (If applicable): Not Applicable • STP Sludge (Dry sludge): 5 m3/day • Others if any: - 2) Mode of Disposal of waste: • Dry waste: Waste will be segregated at source. The recyclable waste will be handed over to the authorized vendor. • Wet waste: Biodegradable waste will be converted to compost using Organic waste converter. • Hazardous waste: NA • Biomedical waste (If applicable): NA • STP Sludge (Dry sludge): Sludge use as manure for gardening • Others if any: - • Area requirement: • Location(s): Ground • Area for machinery: 35 m2 • Capital cost: Rs. 16 Lacs O & M cost: Rs. 5 Lacs/year
Air Quality & Noise Level issues	-
Energy Management	1) Power requirement: • Source of power supply : MSEDCL • During Construction Phase: (Demand Load) 200kW • DG set as Power back-up during construction phase 125 kVA • During Operation phase (Connected load): 4.4 MW • During Operation phase (Demand load): 3 MW • DG set as Power back-up during operation phase: Total 2 nos. 650 kVA • Fuel used: Diesel • Details of high tension line passing through the plot if any: NA 2) 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. Detail calculations & % of saving: Energy saving using solar hot water and energy efficient lighting 20.3%
Traffic circulation system and risk assessment	-
Landscape Plan	Total RG area : R.G. Area Provided : 3000.40 m2
Disaster management system and risk assessment	Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation – 9m
Socioeconomic impact assessment	-
Environmental Management Plan	Environmental Management Plan – (Total Cost per annum (Rs. In Lacs)) Water spray for dust suppression - 5.0 Site sanitation and Potable Water Supply to Labour - 6.0 Environmental Monitoring - 2.0 Health check-up & first aid - 2.0 Safety Personal Protective Equipment - 8.0 Traffic Management (Sign Boards, Persons at entry exit and Parking area) - 2.5 Tyre cleaning and Vehicle maintenance - 1.5 Safety Training to Workers (Twice in Year), Safety Officer - 6.0 Solid waste Management &site Maintenance activity - 3.0 Disinfection - 1.5
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 Mahabal Enviro Engineers Pvt.Ltd.

PP informed that, they have received prior Environmental Clearance vide letter dated 13.06.2011 for plot area of 21,726 Sq.mt and total construction area of 51,938.68 Sq.mt. PP stated that, total construction completed till date is 25,062.69 sq. m. PP further informed that, the project under consideration is for Revalidation of EC. PP further stated that, there is no deviation in total built up area, building profile and Other Environmental parameters etc.

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

After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA.

Specific Conditions by SEAC:

1) PP to submit the Architect Certificate regarding building wise construction done till date & specifically certifying that, the said construction made so far is strictly in accordance with the earlier EC. And there is no any deviation from the building profile approved in the earlier granted EC.

FINAL RECOMMENDATION

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

Agenda of 77th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 77 **Meeting Date** November 16, 2018

Subject: Environment Clearance for Expansion of residential project "Tridhaatu kshitij" on property bearing F. P. No. 230 of T.P.S.III Mahim division, at Mogal lane, G/N ward, Mahim, Mumbai proposed by M/s. TRIDHAATU CONSTRUCTIONS PVT. LTD.

Is a Violation Case: No

1.Name of Project	M/s. TRIDHAATU CONSTRUCTIONS PVT. LTD.
2.Type of institution	Private
3.Name of Project Proponent	Mrs. Poonam Ajmera, TRIDHAATU CONSTRUCTIONS PVT. LTD.
4.Name of Consultant	Dr. D. A. Patil, MAHABAL ENVIRO ENGG. 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	Due to additional TDR available based on the Road width, our project potential is exceeding the 20,000 m2. Hence this expansion.
8.Location of the project	Property bearing F. P. No. 230 of T.P.S.III Mahim division, at Mogal lane, G/N ward, Mahim, Mumbai.
9.Taluka	Mumbai
10.Village	T.P.S.III Mahim division
Correspondence Name:	Mrs. Poonam Ajmera
Room Number:	-
Floor:	5th Floor
Building Name:	B - Wing, Shrikant Chambers
Road/Street Name:	Sion Trombay Road,
Locality:	Next to R. K. Studios
City:	Chembur (E), Mumbai - 400 071.
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOD vide letter No. CHE/CITY/1144/G/N/337(NEW) dt. 07.02.2018
	IOD/IOA/Concession/Plan Approval Number: IOD vide letter No. CHE/CITY/1144/G/N/337(NEW) dt. 07.02.2018
	Approved Built-up Area: 17822.6
13.Note on the initiated work (If applicable)	Work started as per approvals received from MCGM. Construction completed till date FSI: 3,553.55 m2 Non FSI: 9,939.63 m2 Total construction area: 13,493.18 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD vide letter No. CHE/CITY/1144/G/N/337(NEW) dt. 07.02.2018
15.Total Plot Area (sq. m.)	3,436.77 m2
16.Deductions	Nil
17.Net Plot area	3,436.77 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 7,812.07 m2
	b) Non FSI area (sq. m.): 13,204.23 m2
	c) Total BUA area (sq. m.): 21016.30
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 6,168.76 m2
	Approved Non FSI area (sq. m.): 11,653.84 m2
	Date of Approval: 07-02-2018
19.Total ground coverage (m2)	769.81 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	22.39 %
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	Residential Building	3B+S+1st to 33rd (pt) upper floors (including fire check floor)	119.95 m

23.Number of tenants and shops	Flats: 55 Nos.
24.Number of expected residents / users	330 Nos.
25.Tenant density per hectare	185/Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12.2 m wide Mogal Lane (Chattrapati Shivaji Maharaj Marg)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	30 KLD
	Recycled water - Flushing (CMD):	15 KLD
	Recycled water - Gardening (CMD):	4 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	45 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	23 KLD
Wet season:	**Source of water**	MCGM + RWH
	Fresh water (CMD):	26 + 4 KLD
	Recycled water - Flushing (CMD):	15 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	45 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	27 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:	1 Tank of total 20 m3 capacity
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 5 lakh
	Budgetary allocation (O & M cost) :	Rs. 0.2 lakh/y
	Details of UGT tanks if any :	3rd Basement (Below Ramp)
35.Storm water drainage	**Natural water drainage pattern:**	Towards East side of the plot
	Quantity of storm water:	381.5 m3/hr
	Size of SWD:	450 mm x 450 mm
Sewage and Waste water	**Sewage generation in KLD:**	42 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of total 50 KLD capacity
	Location & area of the STP:	Location: 1st Basement & Area provided: 65 m2
	Budgetary allocation (Capital cost):	Rs. 15 Lakh
	Budgetary allocation (O & M cost):	Rs. 3 Lakh/yr
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris : 650 m3 & Excavation quantity : 22,780 m3
	Disposal of the construction waste debris:	The construction debris will be utilized at site for Road Paving
Waste generation in the operation Phase:	**Dry waste:**	66 kg/day
	Wet waste:	99 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.4 m3/day
	Others if any:	Household E-Waste Generation

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be disposed off to authorized recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting unit and will be 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):**	Ground floor
	Area for the storage of waste & other material:	25 m2
	Area for machinery:	10 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 4 Lakh
	O & M cost:	Rs. 2 Lakh/yr

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	RG area required: 687.35 m2 and RG area provided: 747 m2
	No of trees to be cut :	Trees on site: 45, Trees to be cut: 0, Tress to be retained: 45
	Number of trees to be planted :	60 Nos.
	List of proposed native trees :	As below
	Timeline for completion of plantation :	1 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	Anthocephalus kadamba	Kadamb	10	Deciduous tree, large foliage & beautiful tree
2	Cassia fistula	Bahava	8	Medium sized deciduous tree, Beautiful yellow flowers and Butterfly host plant.
3	Alstonia scholaris	Satvin	6	Shady, large evergreen tree, white fragrant flowers
4	Pongamia pinnata	Karanj	8	Shady tree
5	Murraya exotica	Kunti	12	Small, evergreen tree, good for gardens
6	Butea Monosperma	Palash	6	Medium deciduous tree with bright flowers
7	Erythrina indica	Pangara	10	Medium sized deciduous tree. Bright scarlet 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	-	-	-

47.Energy

Power requirement:	**Source of power supply :**	BEST
	During Construction Phase: (Demand Load)	100 kVA
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	1.8 MW
	During Operation phase (Demand load):	0.7 MW
	Transformer:	750 kVA
	DG set as Power back-up during operation phase:	1 x 750 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

- Solar PV panels of 1% of Demand load i.e. 10 kW
- 25% of Hot Water demand on Solar

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving	22.57 %

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. 10 Lakh
	O & M cost:	Rs. 0.5 Lakh

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	-	4.5
2	Site sanitation (Toilets)	-	2.5

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	4
4	Potable Water Supply to Labour Camp	-	2.5
5	Health check-up & first aid	-	2.0
6	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	6.5
7	Traffic Management	(Sign Boards, Persons at entry exit and Parking area)	1.0
8	Safety nets	-	4.5
9	Solid Waste Management & Site maintenance activity	-	1.5
10	Safety - Training to Workers (Twice in Year), Safety Officer	-	2.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	15	3
2	Solar PV panels and Solar Hot water System	Weekly	10	0.5
3	Rain Water Harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	5	0.2
4	Solid waste Composting plant	Continuous O & M	4	2
5	Landscape development	Daily	7	1
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:	12.20 m wide Mogal Lane
Parking details:	**Number and area of basement:**	3 Basements with total 7,192.95 m2 area
	Number and area of podia:	NA
	Total Parking area:	Total Parking area: 7,056.19 m2
	Area per car:	13.75 m2
	Area per car:	13.75 m2
	Number of 2-Wheelers as approved by competent authority:	40 Nos.
	Number of 4-Wheelers as approved by competent authority:	Req: 138 Nos. & Provided: 158 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

Environment Clearance for Expansion of residential project "Tridhaatu kshitij" on property bearing F. P. No. 230 of T.P.S.III Mahim division, at Mogal lane, G/N ward, Mahim, Mumbai proposed by M/s. TRIDHAATU CONSTRUCTIONS PVT. LTD

DECISION OF SEAC

PP was absent; hence the project is deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEIAA decision above.