SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Proposed establishment of API manufacturing facility at Plot No. A-145/8, TTC Industrial Area, Khairane- M.I.D.C., Navi Mumbai by Saitech Pharmaceutical Pvt Ltd

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Proposed establishment of API manufacturing facility at Plot No. A-145/8, TTC Industrial Area, Khairane- M.I.D.C., Navi Mumbai by Saitech Pharmaceutical Pvt Ltd
2.Type of institution	Private
3.Name of Project Proponent	Saitech Pharmaceutical Pvt Ltd
4.Name of Consultant	Aditya Environmental Services Pvt Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No. A-145/8, TTC Industrial Area, Khairane- M.I.D.C., Navi Mumbai
9.Taluka	Navi Mumbai
10.Village	Navi Mumbai
11.Area of the project	TTC Industrial Area, Khairane MIDC
12.IOD/IOA/Concession/Plan Approval Number	TTC Industrial Area, Khairane MIDC
	IOD/IOA/Concession/Plan Approval Number: MIDC plan approval
	Approved Built-up Area: 2994
13.Note on the initiated work (If applicable)	Existing building was constructed in 2005-06 (Narolene Textiles pvt ltd) & used for furniture manufacturing. Project proponent will developed proposed facility within constructed building.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC approval
15.Total Plot Area (sq. m.)	3000 sq. m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): Not applicable
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	47800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable

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26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Min 6 m.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Existing building was constructed in 2005-06 (Narolene Textiles pvt ltd) & used for furniture manufacturing. Project proponent will developed proposed facility within constructed building.
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	Anti osteoporotic, Anti-inflammatory, analgesic, Non steroidal anti-inflammatory , Antitussive, Mydriatic, Decongestant, Anti-depressive disorder, Antitussive, Drug intermediate & Neutraceuticals, Sedative, Hypnotic	0	72 TPA (any two products to be manufacture at one time)	72 TPA (any two products to be manufacture at one time)
2	Spent solvent (By product)	0	144 TPA	144 TPA

32.Total Water Requirement

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Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	26 cmd
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	37 cmd
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	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	3	3	0	1	1	0	2	2
Industrial Process	0	11	11	0	3	3	0	8	8
Cooling tower & thermopack	0	20	20	0	7	7	0	13	13
Gardening	0	3	3	0	3	3	0	0	0

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	--
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	--
	Budgetary allocation (O & M cost) :	--
	Details of UGT tanks if any :	Not applicable
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	2 cmd
	STP technology:	Sewage will be treated in combined effluent treatment plant along with trade effluent.
	Capacity of STP (CMD):	Not applicable
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	Not applicable
	Budgetary allocation (O & M cost):	Not applicable

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Minor quantity of debris will be generate
	Disposal of the construction waste debris:	Debris will be disposed off as per norms
Waste generation in the operation Phase:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Chemical sludge from waste water treatment, Spent carbon, Distillation residue, Contaminated solvent, Discarded containers/ barrels/ liners
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable

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Mode of Disposal of waste:	**Dry waste:**	--
	Wet waste:	--
	Hazardous waste:	Hazardous waste will be disposed off as per Hazardous waste rule, 2016.
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Details given in EIA report.
	Area for the storage of waste & other material:	Details given in EIA report.
	Area for machinery:	Details given in EIA report.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	5 Lakhs
	O & M cost:	2 Lakhs per annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	6 to 9	6.5 to 9	6.5 to 9
2	Total Suspended solids	mg/L	150 to 200	< 100	< 100
3	Biological oxygen Demand	mg/L	2500	< 100	< 100
4	Chemical Oxygen Demand	mg/L	5000	< 250	< 250
5	Oil & Grease	mg/L	< 10	< 10	< 10

Amount of effluent generation (CMD):	Total 23 cmd of effluent will be generate. Out of total 11 cmd of effluent will be recycle & 12 cmd of effluent will be sent to CETP.
Capacity of the ETP:	15 cmd
Amount of treated effluent recycled :	11 cmd
Amount of water send to the CETP:	12 cmd
Membership of CETP (if require):	Yes
Note on ETP technology to be used	(Seperation of High Organic Streamï? steam strippingï? oxidation ï? Collection tank where mixed with other effluents (scrubber/CT blowdown sewage etc)> Aeration Tank-ï? Secondary settling -ï? Pressure sand filter filter > Activated charcoal filter > Treated effluent collection tank ï? sent to CETP)
Disposal of the ETP sludge	ETP sludge will be disposed off to TTCWMA, Navi Mumbai.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical sludge from waste water treatment	35.3	kg/ month	0	1000	1000	CHWTSDF
2	Spent carbon	28.3	kg/ month	0	750	750	CHWTSDF
3	Distillation residue	20.3	kg/ month	0	1500	1500	CHWTSDF
4	Contaminated Solvents	28.6	kg/ month	0	2000	2000	MPCB authorized parties or CHWTSDF
5	Discarded containers/barrels/liners	33.1	kg/ month	0	as per generation	as per generation	Sale to authorized party

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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	850 kg/ Hr Boiler	Furnace oil: 1700 Kg/Day	1	30	as per norms	as per norms
2	Process reactor	--	2	16	as per norms	as per norms
3	Solvent scrubber	--	3	16	as per norms	as per norms
4	DG set	HSD: 15 Lit/ Hr	4	4 feet	as per norms	as per norms

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace oil	0	1700 kg/ day	1700 kg/ day
2	HSD	0	15 Lit/ Hr	15 Lit/ Hr
41.Source of Fuel		From nearby vendors		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	Green belt area: 211.5 sq. m.
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	Details given in EIA report.
	List of proposed native trees :	Details given in EIA report.
	Timeline for completion of plantation :	Details given in EIA report.

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	--	--	--	--
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

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	Fulfill from existing load
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	650 KVA
	During Operation phase (Demand load):	650 KVA
	Transformer:	--
	DG set as Power back-up during operation phase:	1 no. of 200 KVA DG set
	Fuel used:	HSD: 15 Lit/Hr
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

--

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	--	Stack for boiler, scrubber for process vents
Water	--	In plant control + Effluent treatment plant
Noise	--	Enclosure/ PPE
Solid & Hazardous Waste	--	Dispose to CHWTSDF & MPCB authorized recyclers

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Pollution Control	Air Pollution Control	10	2

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2	Environment Monitoring	Environment Monitoring	3	2
3	Water Pollution Control	Water Pollution Control	40	3
4	Hazardous waste & Solid waste management	Hazardous waste & Solid waste management	5	2
5	Green Belt Development	Green Belt Development	2	0.5
6	Occupational Health & Safety	Occupational Health & Safety	3	1.5
7	Social welfare &upliftment	Social welfare &upliftment	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
Furnace oil	proposed	--	4 cu.m.	3 cu.m.	1700 kg/ day	Local	Tanker

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	63.6 sq. m.
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	Width of all Internal roads (m):	min 6 m.
	CRZ/ RRZ clearance obtain, if any:	Not applicable

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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	5 (f)- B
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	21-07-2016

Brief information of the project by SEAC

The Committee noted that the project was considered under category 5 (f) B1 of the schedule of the EIA Notification, 2006. The PP gave a detailed presentation of their new project of manufacturing of API to the extent of 72 MT/A. ToR was granted in the 114th meeting.

DECISION OF SEAC

After detailed discussion the Committee observed as follows:

1. The project site is limited to 3000 sq. m. in area. This poses limitations in providing requisite parking and green belt as per the DC Regulations of MIDC. The Committee agreed to the PP's proposal to provide green belt in MIDC area outside the plot (200 sq. m). Requisite permission of MIDC in this regard shall be submitted. Parking (360 sq. m.) will be provided on plot area A-145/8 of TTC MIDC, Navi Mumbai. The agreement with the owner of the plot shall be made. No on-street parking shall be allowed.

2. The PP proposes to manufacture 9 discrete therapeutic products and has committed to manufacture maximum 2 products at a time limiting the production to 6 MT/M. The PP has also committed to recover 12 MT/M of solvents like Ethanol, Methanol, MDC, Isopropyl alcohol and Toluene. These solvents shall be recovered and reused in the process, thereby totally obviating the need to dispose them off to vendors. Contaminated/ residual solvents need to be sent to the CHWTSDF.

3. The emission management will be effected through stack of height 30m for the FO fired boiler of capacity 850 kg/hr.

4. The PP elaborated the process of effluent management which envisages maximum recovery of solvents and treatment of high COD stream before sending the effluent to CETP at TTC MIDC.

5. The PP has carried out Risk Assessment and Risk Management Studies. There will not be any incidence of off-site emergency, since solvents will be stored on plot no. A-145/8 of TTC MIDC, Navi Mumbai. Fire NOC for this plot may be taken. Various hazard management facilities provided by the PP .

The Committee went through the all aspects of Environmental Impact and noted that the baseline studies indicated that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. The Committee therefore decided to recommend the project for EC subject to the observations (1-5) above.

Specific Conditions by SEAC:

SEIAA DECISION

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Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for M/s Modepro India Pvt. Ltd.

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	M/s Modepro India Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mathew Kavalam
4.Name of Consultant	Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. D-16/2, TTC industrial area, Turbhe MIDC
9.Taluka	Thane
10.Village	Turbhe
11.Area of the project	MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 1303.13
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): Not applicable
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	40000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	

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27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	6 meters
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	2-Benzoyl Pyridine	3.0	0	3.0
2	Amide	2.4	0	2.4
3	2-Benzyl Pyridine	24.0	0	24.0
4	4-Benzyl Pyridine	12.0	0	12.0
5	5,6-Dihydro-6-methyl-4-oxothieno[2,3-b] thiopyran-2-sulphonamide (Dorzolamide Intermediate Racemic)	0.6	0	0.6
6	(6S)-6-methyl-4-oxo-5,6-dihydro-4H-thieno[2,3-b]thiopyran-2-sulphonamide (Dorzolamide Intermediate)	0	4.0	4.0
7	(6S)-6-Methyl-5,6-dihydro-4H-thieno[2,3-b] thiopyran-4-one 7,7-dioxide (Dorzolamide Intermediate)	0	1.0	1.0
8	2-Bromo-5-benzoyl thiophene	0	10.0	10.0
9	3-Acetyl-2,5-dichlorothiophene	0	10.0	10.0
10	2-Chlorothiophene	0	10.0	10.0
11	1-Methyl-1-phenyl-1-(2-pyridyl)methanol.HCl	0	10.0	10.0
12	2-Chloro-3-methylthiophene	0	10.0	10.0
13	4-Methoxy-5-[3-(morpholin-4-yl) propoxy]-2-nitrobenzonitrile (Gefitinib Intermidiate)	0	3.0	3.0
14	(-)-3,4-Dihydro-2-(3-methoxypropyl)-4-ol-2H-thieno-[3,2-e]-1,2-thiazine-6-sulfonamide-1,1-dioxide	0	1.0	1.0
15	5-Chlorothiophene-2-carbonyl chloride	0	1.0	1.0
16	Trans-4-Methyl Cyclohexyl Amine Hydrochloride (Glimepiride intermediate)	1.2	0	1.2
17	5-Chlorothiophene-2-carboxylic acid (Rivaroxaban Intermediate)	0	2.0	2.0
18	4-{4-[(5S)-5-(Amino methyl)-2-oxo-1,3-oxazolidin-3-yl]phenyl} morpholin-3-one(Rivaroxaban Intermediates)	0	1.0	1.0
19	3-(Bromomethyl)-7-chloro-1-benzothiophene (Sertaconazole intermediate)	0	1.0	1.0
20	Ethyl 2-chloro-2-[2-(4-methoxyphenyl) hydrazono]acetate (Apixaban Intermediate)	0	2.0	2.0
21	2-Amino-N-(2-fluoro-6-methyl phenyl)thiazole -5-carboxamide (Dasatinib Intermediate)	0	2.0	2.0
22	2-Acetylbenzo[b]thiophene (Zileuton Intermediate)	0	1.0	1.0
23	(S)-3-((2R,5S)-2-((S)-(4-(benzyloxy)phenyl)((4-fluorophenyl)amino) methyl)-5-(4-fluorophenyl) -5-((trimethylsilyl)oxy)pentanoyl)-4-phenyl oxazolidin-2-one (Ezetimibe Intermediate)	0	1.0	1.0

32.Total Water Requirement

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Dry season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	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	1.6	1.0	2.6	0.3	0.2	0.5	1.3	0.8	2.1
Industrial Process	3.0	7.0	10.0	0	0	0	3.0	7.0	10.0
Cooling tower & thermopack	9.2	22.7	31.9	7.31	16.49	23.8	1.89	6.21	8.1
Gardening	1.0	3.0	4.0	1.0	3.0	4.0	0	0	0

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Fresh water requirement	14.8	33.7	48.5	8.61	14.89	23.5	6.19	14.01	20.2

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3.20 mbgl
	Size and no of RWH tank(s) and Quantity:	1 nos RHW tank of 10 KL capacity
	Location of the RWH tank(s):	Behind the Building - II towards the Eastern boundary of the plot.
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	150000
	Budgetary allocation (O & M cost) :	20000
	Details of UGT tanks if any :	Under ground tank (Fire Hydrant Tank) : - 50 KL
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drained into MIDC drainage line
	Quantity of storm water:	15.62 M3/Hr
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	2.1
	STP technology:	The overflow from septic tank will be treated in aeration tank of ETP
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Scrap metal and insulation waste which will generate from equipment replacement and re-arrangement
	Disposal of the construction waste debris:	The waste will be disposed through scrap vendor
Waste generation in the operation Phase:	**Dry waste:**	Scrap Material :- 150 kg/ M
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	The scrap material will be disposed through scrap vendor
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	As per plot layout
	Area for the storage of waste & other material:	--
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	120000
	O & M cost:	65000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	3.9	In between 6.5-8.5	6.5-8.5
2	TDS	mg/l	67745.2	<2100	<2100
3	COD	mg/l	39973.15	<250	<250
4	BOD	mg/l	13403.04	<100	<100
5	TSS	mg/l	12068.81	<100	<100

Amount of effluent generation (CMD):	20.2 CMD
Capacity of the ETP:	30 CMD & MEE of 5 CMD capacity
Amount of treated effluent recycled :	6.8 CMD
Amount of water send to the CETP:	10.0 CMD
Membership of CETP (if require):	Company is member of common effluent treatment plant (Thane - Belpaur) Association
Note on ETP technology to be used	HCOD/TDS & LCOD/TDS effluent will be treated separately. HCOD/TDS effluent will be treated in MEE of 5 CMD capacity, condensate from MEE will be treted in aeration tank of conventional ETP with LOCD effluent followed by RO system
Disposal of the ETP sludge	ETP sludge will be disposed through TTCWMA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Empty Carboy, Bags	33.3	Kg/M	100	220	320	MPCB authorized recycle
2	Empty Drums	33.3	Nos/M	100	185	285	MPCB authorized recycle
3	Distillation Residue	20.3	T/A	0.1	2.43	2.53	CHWTSDF-TTCWMA
4	ETP Sludge	35.3	kg/A	4500	4500	9000	CHWTSDF-TTCWMA
5	MEE Residue	37.3	Kg/D	0	373	373	CHWTSDF-TTCWMA
6	Spent Solvents	20.2	T/D	0	0.59	0.59	Sale to authorized parties

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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	Boiler (600kg/Hr) & Thermopack	FO :- 1.194 KL/D	01	30	0.35	93
2	D.G. Set (250 KVA)	HSD : 50 lit/hr	02	7.16	0.12	50
3	Scrubber-1	--	03	11	0.5	32
4	Scrubber-2	--	04	11	0.5	32

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	FO	0.288 KL/D	0.906 KL/D	1.194 KL/D
2	HSD	35 Lit/ Hr	-	35 Lit/ hr
41.Source of Fuel		Local Vendor		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	605.64
	No of trees to be cut :	NA
	Number of trees to be planted :	NA
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA

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

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

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	311 KVA
	DG set as Power back-up during construction phase	250 KVA
	During Operation phase (Connected load):	864 KW
	During Operation phase (Demand load):	691 KVA
	Transformer:	1000 KVA
	DG set as Power back-up during operation phase:	250 KVA
	Fuel used:	HSD : 35 Lit/ Hr
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

--

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Process Emissions	2 nos of acid/alkali scrubbers are provided to scrub process emissions	Existing scrubbing system is sufficient to take proposed load of expansion
Boiler/ Thermopack Emission	Common stack of 15 m for boiler and thermopack	Existing stack of 15 m will be replaced by 30 m stack
D.G. Set	Stack of 7.16 m from ground level is provided	Existing stack will be utilized

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

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

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1	Air Pollution Control	New stack of 30 meters will be installed	20.50	1.20
2	Water Pollution Control	Purchase of 5 CMD capacity MEE with stripper, ATFD & Up gradation of ETP to 30 CMD capacity	130	10.10
3	Noise Pollution Control	Installation of anti-vibration pads, & Enclosures.	--	0.15
4	Environment Monitoring and Management	Quarterly Environment Monitoring	--	5.10
5	Occupational Health	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs etc. & annual health-medical checkup of workers	1.80	1.10
6	Green Belt	Maintenance of green belt	--	0.40
7	Solid Waste Management	Containers for storage of solid waste	1.20	0.65
8	Rain Water Harvesting	Installation of RWH system & annual cleaning of RWH tank	1.50	0.20

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Ammonia gas	Liquefied Gas	Cylinder	0.158	0.158	0.158	Local	Road
Activated Charcoal	Solid	Bag	0.5	0.5	0.5	Local	Road
Azobisisobutyronitrile	Liquid	Drum	0.05	0.05	0.05	Local	Road
Acetyl chloride	Liquid	Drum	1.0	1.0	1.0	Local	Road
Acetone	Liquid	Drum	1.0	1.0	1.0	Local	Road
Acetonitrile	Liquid	Drum	1.0	1.0	1.0	Local	Road
Aluminium chloride	Liquid	Drum	1.0	1.0	1.0	Local	Road
Acetic Acid	Liquid	Carboy	0.5	0.5	0.5	Local	Road
Aqueous Ammonia	Liquid	Drum	0.5	0.5	0.5	Local	Road
N-Bromo succinimide	Liquid	Drum	0.2	0.2	0.2	Local	Road
Borane dimethyl sulphide complex 10 M Solun(BDMS)	Gas	Cylinder	0.3	0.3	0.3	Import	Air
Benzyl chloride	Liquid	Drum	0.2	0.2	0.2	Local	Road
N-Butyl Lithium (1.6 M in Hexane)	Gas	Cylinder	0.05	0.05	0.05	Local	Road
Sec Butyl alcohol	Liquid	Drum	1.0	1.0	1.0	Local	Road

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Benzoyl chloride	Liquid	Drum	1.0	1.0	1.0	Local	Road
Copper powder	Solid	Bag	0.01	0.01	0.01	Local	Road
Chloropentanoyl chloride (Chloro valeryl chloride)	Liquid	Drum	0.2	0.2	0.2	Import	Sea
Chlorosulfonic Acid	Liquid	Drum	1.0	1.0	1.0	Local	Road
Chloroacetone	Liquid	Drum	0.2	0.2	0.2	Local	Road
Cyclohexane	Liquid	Drum	0.2	0.2	0.2	Local	Road
2-Chloro thiophenol	Liquid	Drum	1.2	1.2	1.2	Import	Air
2-Chloro benzaldehyde	Liquid	Drum	1.5	1.5	1.5	Import	Air
2-Chloro-6-methyl aniline	Liquid	Drum	0.2	0.2	0.2	Local	Road
Calcium oxide	Solid	Bag	0.15	0.15	0.15	Local	Road
Dichloromethane (MDC)	Liquid	Drum	4.0	4.0	4.0	Local	Road
1,4-Dioxane	Liquid	Drum	0.36	0.36	0.36	Local	Road
Diisopropyl ethylamine (DIPEA)	Liquid	Drum	1.3	1.3	1.3	Local	Road
3-Ethoxy acryloyl chloride	Liquid	Drum	0.3	0.3	0.3	Local	Road
Ethyl acetate	Liquid	Drum	1.0	1.0	1.0	Local	Road
Ethylene dichloride (EDC)	Liquid	Drum	1.0	1.0	1.0	Local	Road
Hydroxyl amine-o-sulfonic acid (HOSA)	Liquid	Drum	0.2	0.2	0.2	Import	Air
Hydroxyl amine HCl	Liquid	Drum	1.0	1.0	1.0	Local	Road
3-Hydroxy methoxy benzaldehyde (Isovanilin)	Liquid	Drum	0.6	0.6	0.6	Import	Sea
Con. Hydrochloric acid	Liquid	Drum	4.0	4.0	4.0	Local	Road
48% Hydrobromic acid	Liquid	Drum	1.0	1.0	1.0	Local	Road
50 % Hydrogen peroxide	Liquid	Drum	1.0	1.0	1.0	Local	Road
Isopropyl alcohol (IPA)	Liquid	Drum	1.0	1.0	1.0	Local	Road
Methyl chloride	Gas	Cylinder	0.6	0.6	0.6	Local	Road
(R)-(+) - 2-MethylCBS Oxazolideine CBS Reagent (1M in Toluene)	Gas	Cylinder	0.12	0.12	0.12	Import	Air
4-Methyl cyclohexanone	Liquid	Drum	1.0	1.0	1.0	Import	Air
Magnesium	Solid	Bag	0.5	0.5	0.5	Local	Road
3- Methylthiophene	Liquid	Drum	2.0	2.0	2.0	Import	Sea
Methanol	Liquid	Drum	2.0	2.0	2.0	Local	Road
Methyl chloroformate	Liquid	Drum	0.2	0.2	0.2	Local	Road
60% Aq. Nitric acid	Liquid	Drum	0.3	0.3	0.3	Local	Road
Pyridine	Liquid	Drum	2.0	2.0	2.0	Local	Road
Pyridine hydrochloride	Liquid	Drum	0.2	0.2	0.2	Local	Road
Propylene glycol	Liquid	Drum	2.0	2.0	2.0	Local	Road
Potassium carbonate	Solid	Bag	0.5	0.5	0.5	Local	Road
Potassium tert butoxide	Liquid	Drum	0.2	0.2	0.2	Local	Road
Potassium permanganate	Solid	Bag	0.5	0.5	0.5	Local	Road

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5% Paladium on Charcoal (5% Pd/C)	Solid	Bag	0.01	0.01	0.01	Local	Road
Sulphur dioxide	Gas	Cylinder	0.5	0.5	0.5	Local	Road
Sodium metabisulphite	Solid	Bag	0.2	0.2	0.2	Local	Road
10 % Aq Sodium hypochloride solution	Liquid	Drum	2.0	2.0	2.0	Local	Road
Sulphuric acid	Liquid	Drum	0.2	0.2	0.2	Local	Road
Sodium methyl mercaptide	Solid	Bag	5.0	5.0	5.0	Local	Road
Sodium metal	Solid	Bag	3.0	3.0	3.0	Local	Road
Sodium hydroxide	Solid	Bag	1.0	1.0	1.0	Local	Road
Sodium acetate	Solid	Bag	0.5	0.5	0.5	Local	Road
Sodium bicarbonate	Solid	Bag	0.5	0.5	0.5	Local	Road
Sodium carbonate	Solid	Bag	0.5	0.5	0.5	Local	Road
Sodium tungstate	Solid	Bag	0.05	0.05	0.05	Local	Road
Toluene	Liquid	Drum	1.0	1.0	1.0	Local	Road
Tetrahydrofuran (THF)	Liquid	Drum	2.0	2.0	2.0	Local	Road
Titanium tetrachloride	Solid	Bag	0.5	0.5	0.5	Local	Road
Thionyl chloride	Liquid	Drum	0.9	0.9	0.9	Local	Road
Trimethylsilyl chloride (TMSCl)	Liquid	Drum	0.4	0.4	0.4	Local	Road
Tetra-n-butylammonium bromide (TBAB)	Liquid	Drum	0.1	0.1	0.1	Local	Road
Thiophene	Liquid	Drum	5.0	5.0	5.0	Import	Sea
Thiourea	Solid	Bag	0.2	0.2	0.2	Local	Road
Hydrogen Gas	Gas	Cylinder	7 Cum	7 Cum	7 Cum	Local	Road
Chlorine Gas	Gas	Cylinder	0.1	0.1	0.1	Local	Road

52.Any Other Information

No Information Available

53.Traffic Management

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

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Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	441 sq.m.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	--
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	--
	Category as per schedule of EIA Notification sheet	Schedule 5(f) Category - 'B1'
	Court cases pending if any	No
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

Minutes of 135th SEAC-1 Meeting :

The PP gave a detailed presentation of their EIA report envisaging augmentation of their production capacity of API intermediates and Fine Chemicals from 43.2 TPA to 113.2 TPA. The project was considered under category 5(f)-B1 of the schedule of the EIA Notification 2006.

DECISION OF SEAC

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The baseline studies indicated that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project. After detailed deliberations the Committee made the following observations:

1. The PP submitted that the CETP at MIDC TTC, Navi Mumbai has capacity to take additional load. The Committee took note of this. MPCB may verify this before granting Consent to Operate.

2. The PP will provide 12% of plot area for parking and 33% of un-built area for green belt. 2 gates are existing on the Southern side of the plot adjoining the road.

3. A detailed presentation was made on Risk Assessment and Risk Mitigation. There is a contingency of off-site emergency, hence hazard management plan shall be shared with the District Administration in case of accidents. Layout of the plot is submitted by PP with the all hazard management facilities. Maharashtra Pollution Control Board (MPCB) should verify the provision of these facilities before granting Consent to Operate.

4. Effluent management envisages segregation of streams into High COD/TDS and Low COD/TDS streams. The former stream will be subjected to pre-treatment with Phenton / Hydrogen Peroxide (H2O2). This will be followed by stripper, MEE & ATFD. MEE condensate will be led to ETP. The latter stream will subjected to ETP comprising of primary, secondary and tertiary treatment. Domestic effluent will be led directly into aeration tank of ETP. ETP of 40 CMD shall be provided; thus the present augmentation should involve upgradation of ETP from 15 CMD to 40 CMD. Installation of 5 CMD stripper, MEE and ATFD will also be required. In this context 11.8 CMD ETP effluent should be recycled in cooling tower and flushing.

5. The emission from 1600 kg/hr boiler and 4 kcal/ hr thermopack (FO based) shall be led to stack of height 30m. Process emissions shall be subjected to alkali/acid scrubber followed by stack of height 6m above the roof level. An outlet TPM level of < 100 mg/Nm3 should be achieved. 6. There should be 90-95% recovery of solvents. 30 % of recovered solvent may be sold to authorized vendors, and the rest should be reused. Hazardous waste shall be sent to the CHWTSDF, Mahape. Chloro compounds should not be sent to hazard management facility but should be mineralized locally and disposed of in safe manner.

After considering all aspects of Environmental Impact the Committee decided to **recommend** the project for **EC** subject to the observations above (1-6).

Specific Conditions by SEAC:

SEIAA DECISION

Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Establishment of Synthetic Organic Chemical API Manufacturing facility by Glenmark Pharmaceuticals limited at Plot No. B- 25, MIDC Shendra, Aurangabad, 431210, Maharashtra

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Establishment of Synthetic Organic Chemical API Manufacturing facility by Glenmark Pharmaceuticals limited at Plot No. B- 25, MIDC Shendra, Aurangabad, 431210, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	Glenmark Pharmaceuticals limited
4.Name of Consultant	Aditya Environmental Services pvt. Ltd.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Diversification in existing facility. Existing facility pertains to formulation which does not falls under EIA notification, 2006.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	Plot No. B- 25, MIDC Shendra, Aurangabad, 431210, Maharashtra
9.Taluka	Aurangabad
10.Village	Kumbephal
11.Area of the project	Maharashtra Industrial Development Corporation
12.IOD/IOA/Concession/Plan Approval Number	As per MIDC norms
	IOD/IOA/Concession/Plan Approval Number: MIDC Plot plan approval
	Approved Built-up Area: 26465
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC plan approval No. E11825
15.Total Plot Area (sq. m.)	118,955 sq.m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 26,465
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	400000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable

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26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Min. 6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Existing facility pertains to formulation which does not falls under EIA notification, 2006.
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	Crofelemer	0.417	0	0.417
2	Tablets	50 million per annum	0	50 million per annum
3	Capsules	50 million per annum	0	50 million per annum
4	Inhalers	5 million per annum	0	5 million per annum
5	Anti Acne (Adapalene), Anti-Alzheimer (Riluzole), Anti depressant (Bupropion HCl), Anti emetic (Palonosetron), Anti Erectile Dysfunction (Tadalafil), Anti Fungal (Fluconazole, Voriconazole), Anti Histaminic (Desloratadine, Levocetrizene), Anti Hyperlipidemia (Rosuvastatin Calcium), Anti hypertensive (Cilazapril, Olmesartan Medoxomil, Perindopril Erbuminem, Telmisartan), Antibiotic (Linzolid), Anticonvulsant (Zonisamide, Oxcarbazepine), Antidiabetic (Sitagliptin, Tenegliptin), Antirheumatics (Etoricoxib),Antiulcer(Esomeprazole Magnesium Dihydrate),Hypnotic, Sedative(Zolpidem Tartrate),Platelet Aggregation Inhibitor(Cilostazol),Psoriasis(Dimethyl Fumarate),To treat Osteoporosis(Strontium Ranelate)	0	18.4	18.4

32.Total Water Requirement

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Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	340 cmd
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	618 cmd (Fresh water- 340 cmd & Recycle water- 278 cmd)
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Wet season:	**Source of water**	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	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	25	20	45	5	0	5	20	20	40
Industrial Process	106	112	218	6	28	34	100	84	184
Cooling tower & thermopack	119	191	310	106	150	256	13	41	54
Gardening	5	40	45	5	40	45	0	0	0

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	Rain water quantity: 40 cmd (During wet season)
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	15 Lakhs
	Budgetary allocation (O & M cost) :	5 Lakhs per annum
	Details of UGT tanks if any :	Not applicable
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	40 cmd
	STP technology:	Sewage water partially treat in STP & then sent to ETP for final treatment.
	Capacity of STP (CMD):	STP capacity: 40 cmd
	Location & area of the STP:	Near solvent recovery plant
	Budgetary allocation (Capital cost):	--
	Budgetary allocation (O & M cost):	--

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	During construction phase waste debris will generate in minor quantity.
	Disposal of the construction waste debris:	Construction waste debris will be reused for levelling.
Waste generation in the operation Phase:	**Dry waste:**	Carton boxes and paper scrap: 3.74 TPA, Fiber drum: 11,200 Nos./A, Aluminum foil: 5,00,000 Nos./A, Poly bags scrap: 4.7 TPA, Aluminum scrap: 4.5 TPA, Paper scrap: 43.2 TPA, Metal scrap: 10.5 TPA, Wooden scrap: 9 TPA
	Wet waste:	Not applicable
	Hazardous waste:	Used Oil, Spent mother liquor, Discarded barrels/ containers/ liners, Chemical sludge from waste water treatment, Filter and filter material which have organic liquid, Residue and wastes, Plastic drums/ MS Drums/ Gunny bags, Waste /oil soaked cotton, Spent catalyst + Charcoal, Distillation residue, Off specifications products, Date expired discarded & off specifications drugs/ products/ raw materials, Spent solvent, Flue gas cleaning residue, Resin from DM plants, Used batteries from UPS, Insula
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	STP sludge will be disposed of in CHWTSDF.

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Mode of Disposal of waste:	**Dry waste:**	Dry waste will be disposed off as per norms.
	Wet waste:	Not applicable
	Hazardous waste:	Hazardous waste will be disposed off to CHWTSDF, authorized recycler, re processors.
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	STP sludge will be disposed of in CHWTSDF.
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Details given in EIA report.
	Area for the storage of waste & other material:	Details given in EIA report.
	Area for machinery:	Details given in EIA report.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 Lakhs
	O & M cost:	50 Lakhs per annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	3-9	6.5 to 8.5	6.5 to 8.5
2	Total Suspended solids	mg/L	1500 to 2000	<100	100
3	Total Dissolved solids	mg/L	5000 to 6000	<2100	2100
4	Chemical oxygen demand	mg/L	30,000 to 32,000	<250	250
5	Biological oxygen demand	mg/L	12,000 to 14,000	<100	100
6	O & G	mg/L	80 to 100	<10	10

Amount of effluent generation (CMD):	278 cmd
Capacity of the ETP:	300 cmd
Amount of treated effluent recycled :	278 cmd
Amount of water send to the CETP:	Proposed project will maintain zero liquid discharge.
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	ETP details given in EIA report.
Disposal of the ETP sludge	ETP sludge will be disposed to CHWTSDF.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used Oil	5.1	TPA	0.6	3.4	4	Sale to MoEF /MPCB approved recyclers
2	Spent mother liquor	28.4	TPA	1826.8	0	1826.8	Distillation & Sale to authorized recycler/CHWTSDF
3	Discarded barrels, containers, liners	33.1	Nos./A	3000	30,000	33,000	Sale to authorized recycler/CHWTSDF
4	Chemical sludge from waste water treatment	35.3	TPA	1001.2	2000	3000	CHWTSDF

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5	Filter and filter material which have organic liquid	33.2	TPA	7.2	76.8	84	CHWTSDF
6	Residue and wastes	28.1	TPA	10.93	54.07	65	CHWTSDF
7	Plastic drums, MS Drums, Gunny bags	33.1	Nos/A	14,900	--	14,900	Sale to authorized recycler
8	Waste /oil soaked cotton	5.2	TPA	0	1.5	1.5	Sale to registered reprocessor
9	Spent catalyst + Charcoal	28.2	TPA	0	35	35	CHWTSDF
10	Distillation residue	28.1	TPA	0	98	98	CHWTSDF
11	Off spec products	28.4	TPA	0	3	3	CHWTSDF
12	Date expired discarded and off specification drugs / products/ RMs	28.5	TPA	0	12	12	CHWTSDF
13	Spent Solvent	28.6	TPA	0	15,960	15,960	Distillation and sale to authorized vendors
14	Flue gas cleaning residue	35.1	TPA	0	2	2	Sale to authorized vendors
15	Resin from DM Plants	35.2	TPA	0	1	1	Sale to registered reprocessor
16	Used batteries from UPS etc	--	Nos/A	0	100	100	Return to supplier / manufacturer
17	Insulation waste	--	TPA	0	1.5	1.5	CHWTSDF

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1 TPH Boiler (Existing)	Furnace oil- 1.5 TPD	1	33	0.3	83
2	2 TPH Boiler (Existing)	Furnace oil- 1.5 TPD	2	33	0.3	--
3	5 TPH Boiler (Proposed)	Furnace oil- 8.568 TPD	3	40	0.5	270
4	5 TPH Boiler (Proposed)	Furnace oil- 8.568 TPD	4	40	0.5	270
5	725 KVA DG set (Existing)	150 Lit/Hr	5	6	as per norms	80
6	1000 KVA DG set (Proposed)	200 Lit/Hr	6	7	as per norms	80
7	1000 KVA DG set (Proposed)	200 Lit/Hr	7	7	as per norms	80

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace oil	3 TPD	17.136 TPD	20.136 TPD
2	HSD	150 Lit/Hr	400 Lit/Hr	550 Lit/Hr
41.Source of Fuel		From nearby vendors		
42.Mode of Transportation of fuel to site		By road		

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43.Green Belt Development	**Total RG area :**	Green belt area: 25,615 sq. m.
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	Details given in EIA report
	List of proposed native trees :	Details given in EIA report
	Timeline for completion of plantation :	Details given in EIA report

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	--	--	--	--
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)	fulfill from existing facility
	DG set as Power back-up during construction phase	existing 725 KVA DG set
	During Operation phase (Connected load):	2000 KVA
	During Operation phase (Demand load):	2000 KVA
	Transformer:	--
	DG set as Power back-up during operation phase:	2 Nos. of 1000 KVA DG set each
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

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49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

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1	--	--

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Emission From fuel burning source	Stack	Stack
Effluent From utilities, Process	ETP	Up gradation of existing ETP
Noise from utilities	Acoustic enclose, Silencer.	Acoustic enclosure, Silencer.
Solid & Hazardous waste	Waste management system	Waste management system, Authorized recycler, reprocessor

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	40 Lakhs
	O & M cost:	10 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	--	--	--

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Pollution Control	Water Pollution Control	600	85
2	Air Pollution Control	Air Pollution Control	25	2
3	Environment Monitoring/management	Environment Monitoring/management	5	5
4	Occupational Health & Safety	Occupational Health & Safety	10	5
5	Green Belt Development	Green Belt Development	15	8
6	Hazardous waste & Solid waste management	Hazardous waste & Solid waste management	15	50
7	Other Green initiatives	- Rain water harvesting	15	5
8	Other Green initiatives	- Solar power / LED	30	5
9	Other Green initiatives	- Energy conservation	10	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

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Acetone	Existing- 2 nos.	South east side of plot	20 KL each	20 KL each	223 TPA	Jpb Chemical Industries Pvt. Ltd.	By tanker/ drum
n-butanol	Existing- 2 nos.	South east side of plot	20 KL each	20 KL each	178 TPA	JPB Chemicals	By tanker/ drum
Furnace oil	Existing	South east side of plot	20 KL	20 KL	7250 TPA	IOCL/ BPCL	By tanker/ drum
Diesel	Existing	South east side of plot	20 KL	20 KL	as per requirement	nearby vendors	drum
Methanol	Proposed- 2 nos.	South east side of plot	20 KL each	20 KL each	1550 TPA	Amjey Chem Trade Pvt. Ltd	By tanker/ drum
Toluene	Proposed- 2 nos.	South east side of plot	20 KL each	20 KL each	2511 TPA	Amjey Chem Trade Pvt. Ltd	By tanker/ drum
EDC	Proposed	South east side of plot	20 KL	20 KL	250 TPA	C.J. Shah & Co	By tanker/ drum
Ethyl acetate	Proposed	South east side of plot	20 KL	20 KL	844 TPA	Godavari Biorefineries Ltd	By tanker/ drum
MDC	Proposed- 2 nos.	South east side of plot	20 KL each	20 KL each	2554 TPA	BASF Petronas Chemicals Sdn	By tanker/ drum
IPA	Proposed- 2 nos.	South east side of plot	20 KL each	20 KL each	3198 TPA	International Solvents And Chemical	By tanker/ drum

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:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	14,394 sq. m.
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	Width of all Internal roads (m):	Min. 6 m

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	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	5(f)- B
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-05-2016

Brief information of the project by SEAC

The PP gave a detailed presentation of their EIA report to manufacture therapeutic category APIs in their existing plant premises at 5 star MIDC, Shendra, Aurangabad to the extent of 18.4 TPM. The Committee considered the project under category 5(f)-B1 of the schedule of the EIA Notification 2006.

The PP claimed that presently they were not manufacturing any synthetic organic chemicals but only converting a biological plant source – latex extracted from the South American plant, “Cotton Lachari” to a therapeutic grade product, “Crofelmar”.

DECISION OF SEAC

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After detailed discussion the Committee made following observations:

1. The baseline studies indicate that air, water, ground water, noise and soil parameters would remain well within prescribed limits even after commissioning of the project.

2. The effluent management envisages segregation of effluents into high COD/BOD and low COD/BOD streams. Former will be subjected to RO and MEE and latter to a conventional effluent treatment process. The Committee was insistent that the Bromine/ Br products should not be allowed to enter the effluent stream. The effluent management will ensure that Bromine /Bromine compounds are segregated/recovered as NaBr so that they will not enter in effluent stream in any way.

3. The PP promised to submit an action plan to achieve this. The Committee noted that the project would run as a Zero Liquid Discharge Process.

4. The Committee went through the water balance and found that nearly 360 CMD water was additionally to be sourced from MIDC. The Committee was concerned about scarcity of water in the area, and therefore suggested that the entire water which could be recycled, amounting to 283 CMD should be used for gardening (50CMD) and cooling (233 CMD), thereby saving 90 CMD of MIDC water. The PP should restrict consumption of water to 340 CMD during dry and 285 CMD in wet season thereby effecting substantial saving of water drawn by MIDC.

5. The PP intends to use FO as fuel in the boilers. The PP should achieve a TPM of less than 100 mg/Nm3 at the stack end.

6. The Risk Assessment and Risk Management studies show that there is a possibility of off-site emergency. Possibility of EDC/MDC leakages shall be considered and adequate detectors may be installed.

7. The Committee is concerned about the solvent recovery. A table showing aspects of solvent recovery with details of vendors who will be procuring spent solvents from PP.

8. The PP shall ensure that THF will not be used in the process but shall be replaced by alternate solvent (DMF/Toluene) for manufacturing of Etoricoxib. However the Committee desired that notwithstanding this the PP shall undertake R&D to replace THF with Methylated THF and seek necessary clearances.

After considering all aspects of Environmental Impact the Committee decided to recommend the project for EC subject to the above (2-8) conditions.

Specific Conditions by SEAC:

SEIAA DECISION

Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Construction of Phase V (New building consisting Blocks B9, B10 and B11 (MLCP) of Existing "Nirlon Knowledge Park

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Expansion of Building and Construction project – Construction of Phase V (New building consisting Blocks B9, B10 and B11 (MLCP) of Existing "Nirlon Knowledge Park"
2.Type of institution	Green Building
3.Name of Project Proponent	M/s Nirlon Ltd.
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Others - (Construction of a new building in Existing IT Park without increase in Plot area)
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing IT Park (Construction of a new building in Existing IT Park without increase in Plot area)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	CTS Nos. 257/1, 257/B, 257/C, 257/D, 257/E/2/A/2, 257/ F1and 257/F2 of village Goregaon and CTS no. 557, 561of Pahadi Goregaon at Goregaon East Borivalli Tehsil, Mumbai.
9.Taluka	Borivalli
10.Village	Pahadi Goregaon
11.Area of the project	In Municipal Corporation of Greater Mumbai (MCGM), Goregaon, Ward P(South)
12.IOD/IOA/Concession/Plan Approval Number	CHE/WSII/0976/P/337(NEW)
	IOD/IOA/Concession/Plan Approval Number: CHE/WSII/0976/P/337(NEW)
	Approved Built-up Area: 165200.00
13.Note on the initiated work (If applicable)	The project proposal is for an expansion of existing IT Park of 2,87,054.00 sqm (refer Annex I – EC clearance of existing development) where the construction is complete. Building in Phase I , II, III & IV are completed ,OC received and buildings occupied.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	1,06,608.10 sqm (no increase in Plot area).As per new IT policy 2015, an additional FSI available on payment of premium, hence total potential FSI on plot would be 1:3.
16.Deductions	9608.50 sqm (Road set back)
17.Net Plot area	96999.60 sqm (no increase in plot area)
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 94,100.00 sqm
	b) Non FSI area (sq. m.): 71,100.0 sqm
	c) Total BUA area (sq. m.): 1,65,200.00 sqm
19.Total ground coverage (m2)	38013.54 sqm (entire campus)
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	39.19 % - (entire campus)
21.Estimated cost of the project	12250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	B9	2B+LG+UG+24UF+Fire check Floor	110.20 m above FGL
2	B10	2B+LG+UG+9 UF	45.30 m above FGL
3	B11	2B+LG+UG+Mezzenine+8F	34.60 m above FGL

23.Number of tenants and shops	Not Applicable

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24.Number of expected residents / users	Approx.11985 in proposed building
25.Tenant density per hectare	3229 per hector (entire campus)
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Site abutting Western Express Highway on the east (80m including service roads) connected by an access road of 18 m wide. The southern side of the site, there is a 21.35 m DP Road (35m ROB).
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	B1, B2, B3, B4, B5, B6-A, B6-B, B7, B8, MLCP 1 (EC Obtained)
30.Details of the demolition with disposal (If applicable)	Demolition waste – Approx. 15500 cum of concrete debris and 1700 MT of steel. Waste shall be disposed as per MCGM norms.

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 Supply, existing bore wells and treated waste water
	Fresh water (CMD):	299
	Recycled water - Flushing (CMD):	551
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	850
	Fire fighting - Underground water tank(CMD):	350000 litre
	Fire fighting - Overhead water tank(CMD):	50000 + 30000 litre
	Excess treated water	0

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Wet season:	**Source of water**	MCGM Supply, existing bore wells and treated waste water
	Fresh water (CMD):	293
	Recycled water - Flushing (CMD):	551
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	844
	Fire fighting - Underground water tank(CMD):	350000 litre
	Fire fighting - Overhead water tank(CMD):	50000 + 30000 litre
	Excess treated water	0
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**
Industrial Process	NA	NA	NA	NA	NA	NA	NA	NA	NA

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon Approx. 2.7 to 6.4 m BGL, Post monsoon – 1.82 to 5.5 m BGL
	Size and no of RWH tank(s) and Quantity:	3 m x 3 m x 2.2 m Deep- 9 Nos
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	17
	Size of recharge pits :	1 m diameter x 3 m deep
	Budgetary allocation (Capital cost) :	80 lacs
	Budgetary allocation (O & M cost) :	Approx 3 lacs
	Details of UGT tanks if any :	Basement 2

35.Storm water drainage	**Natural water drainage pattern:**	Open / Closed drain sloping from south east to North West which is in line with natural gradient.
	Quantity of storm water:	Approx. 6012.63 cum per season
	Size of SWD:	0.6m x 0.6 m to 1m x 1.2 m

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Sewage and Waste water	**Sewage generation in KLD:**	568
	STP technology:	MBBR
	Capacity of STP (CMD):	One, 570 kld
	Location & area of the STP:	On the north west of proposed B11 Building
	Budgetary allocation (Capital cost):	Rs. 2.53 crores (proposed)
	Budgetary allocation (O & M cost):	Rs 0.375 crores per year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Approx. 15500 cum of concrete debris and 1700 MT of steel
	Disposal of the construction waste debris:	As per MCGM norms
Waste generation in the operation Phase:	**Dry waste:**	Approx. 480 kg/day
	Wet waste:	Approx. 750 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	approx. 17kg/day
	Others if any:	E-waste (Kg/year) : approx. 1000
Mode of Disposal of waste:	**Dry waste:**	Sold to recyclers
	Wet waste:	Composted in OWC and used as manure
	Hazardous waste:	Registered recyclers
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	E-waste: Registered vendors* (* as per the contract, the licenses of the IT park will have to ake individual membership of MPCB recognized E – waste recycler)
Area requirement:	**Location(s):**	Organic Waste Converter (OWC) - west direction of B 4 & B 5
	Area for the storage of waste & other material:	50 sqm
	Area for machinery:	20 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 lacs
	O & M cost:	8 lacs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Stacks (Standby)	HSD (used for trial only) power failure is very rare	10	45 m	300mm	Not applicable

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	Not applicable	Not applicable
41.Source of Fuel		HSD Storage tanks within the campus, filled only if trials are run		
42.Mode of Transportation of fuel to site		Through Petrol Pump tankers		

43.Green Belt Development	**Total RG area :**	RG on the Ground: 17800 sqm, RG on the podium: 6056.43 sqm for entire plot.
	No of trees to be cut :	About 90 trees (mainly Polyalthia longifolia (lesser Ashoka tree)) around the old building will be cut .
	Number of trees to be planted :	180 new trees of different species will be planted in Phase V.
	List of proposed native trees :	Aegle marmelos, Anona squamosa, Azadirachta indica, Cordia dichotoma, Lagerstroemia speciosa, Millingtonia hortensis ,Mimusops elengi, Syzygium cumini, Bauhinia purpurea, Bauhinia racemosa, Citrus limon, Emblica officinalis, Gardenia jasminoides, Murraya paniculata, Saraca asoka
	Timeline for completion of plantation :	3 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance

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1	Peltophorum pterocarpum	Peela Gulmohar	7	Native to tropical southeastern Asia and a popularly ornamental tree grown around the world. It is a flowering, deciduous tree growing to 15–25 m tall. The wood has a wide variety of uses, including furniture making and the foliage is used as a fodder crop.
2	Phoenix dactylifera	Khajur (Date)	10	Commonly known as Date Palm, and imposing palm with a very slender trunk, up to 30 m tall plant native to North Africa and has been extensively cultivated here as well. Cultivated for its edible sweet fruit.
3	Plumeria alba	Champa	3	2-8 m evergreen shrub has narrow elongated leaves, large and strongly perfumed white flowers with a yellow center. They are common ornamental plants that bear beautiful and fragrant flowers.
4	Polyialthia longifolia	Ashoka	70	A lofty evergreen tree, native to India, commonly planted due to its effectiveness in alleviating noise pollution. Grows over 10 meter in height. Leaves are used for ornamental decoration. Used for manufacturing small articles such as pencils, boxes, matchsticks, etc.
5	Alstonia scholaris	Satwin	4	" An elegant tall evergreen tree with greyish rough bark. Medicinal plant, bark is used in traditional medicine to treat dysentery and fever"
6	Anthocephallus cadamba	Kadamb	3	"Perrennial Tree up to 45 m tall, without branches for more than 25 m. Native, Medicinal plant,Stembark—febrifugal, antidiuretic, anthelmintic, hypoglycaemic. "
7	Areca catechu	Supari	2	"A medium-sized evergreen tree growing to 20 m tall, with a trunk 20-30 cm in diameter. Produces Betel nut used for paan"
8	Barringtonia acutangula	Samudra phool	8	"An evergreen tree 5-8 m tall with rough fissured dark grey bark. Medicinal pant has long been used for medicine, timber and as a fish poison."
9	Barringtonia acutangula	Samudra phool	8	"An evergreen tree 5-8 m tall with rough fissured dark grey bark. Medicinal pant has long been used for medicine, timber and as a fish poison."
10	Barringtonia acutangula	Samudra phool	8	"An evergreen tree 5-8 m tall with rough fissured dark grey bark. Medicinal pant has long been used for medicine, timber and as a fish poison."

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11	Borassus flabellifer	Tad (Palm)	1	"A large tree up to 30m high and the trunk may have a circumference of 1.7m at the base. Edible fleshy seeds, leaves are used for thatching, mats, baskets, fans, hats, umbrellas, and as writing material."
12	Borassus flabellifer	Tad (Palm)	1	"A large tree up to 30m high and the trunk may have a circumference of 1.7m at the base. Edible fleshy seeds, leaves are used for thatching, mats, baskets, fans, hats, umbrellas, and as writing material."
13	Cassia siamea	Kassod plant	16	It is a medium-size, evergreen tree growing up to 18 m with beautiful yellow flowers. It is often used as shade tree in cocoa, coffee and tea plantations.
14	Dalbergia sissoo	Sheesham	7	"A medium to large deciduous tree, native to India, with a light crown. It can grow up to a maximum of 25 m in height and 2 to 3 m in diameter. One of the most important cultivated timber tree. "
15	Ficus racemosa	Umber	3	It can grow 20 - 30 metres tall and is 36 - 90cm in diameter. It is used for slope, gully and river bank stabilization
16	Ficus religiosa	Pimpal	1	"A large deciduous tree with a pale stem often appearing fluted on account of the numerous roots which have fused with the stem. It is used to cure disorders including asthma, diabetes, diarrhea, epilepsy, gastric problems, inflammatory disorders, infectious and sexual disorders"
17	Michelia champaca	Son chafa	7	An evergreen tree with fragrant flowers . It grows up to 50 m or taller, up to 1.9 m d.b.h. Flowers are used for worshipping. Ornamental plant
18	Millingtonia hortensis	Buch	28	A tree native to South Asia & South East Asia grows to height of between 18 and 25 metres. The tree is evergreen, versatile tree which can grow in various soil types and climates with a preference for moist climates.It bears fragrant flowers and is an ornamental plant species. Flowers and bark has medicinal qualities.
19	Streblus asper	sandpaper	1	A rigid and densely branched tree growing from 4-10 m in height. The leaves of Sand Paper Tree are rough and are utilized for cleaning cooking utensils and as a substitute for sandpaper.

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20	Tamarindus indica	Chinch	8	It is an evergreen tree with rough dark grey bark, grows up to 15 to 25 m tall. Produces Tamarind fruit that is widely used for its flavour. Has medicinal purpose also.
21	Terminalia arjuna	arjuna	1	The arjuna is about 20–25 metres tall; usually has a buttressed trunk, and forms a wide canopy at the crown. Medicinal Plant
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Gardenia jasminoides	0.3 m	1 to 2 m2
2	Nyctanthes arbor-tristis	0.3 m	0.6 m2
3	Psidium guajava	0.3 m	0.8 m2
4	Nerium indicum	0.4 m	1 m2
5	Hibiscus rosa-sinensis	0.3 m	0.5- 0.7 m2
6	Tecoma stans	0.3 m	1 m2
7	Tecoma stans	0.3 m	1 m2
8	Tecoma capensis	0.3 m	1 m2
9	Hamelia patens	0.2 m	1 to 2 m2
10	Crinum Asiaticum	0.4 m	0.6 m2
11	Ixora coccinea	0.6 m	1 m2
12	Thevetia peruviana	0.3 m	0.8 m2
13	Tabernamontana coronaria	0.2 m	1 m2
14	Codiaeum Variegatum	0.2 m	0.2 m2

47.Energy

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Power requirement:	**Source of power supply :**	Reliance Energy Ltd
	During Construction Phase: (Demand Load)	3x149 KW
	DG set as Power back-up during construction phase	Not applicable
	During Operation phase (Connected load):	12.64 MW
	During Operation phase (Demand load):	10.52 MW
	Transformer:	4Nos x 1600 kVA each for Nirlon common area + 7x1500 kVA (each) for licensee fro Phase V)
	DG set as Power back-up during operation phase:	Number and capacity of the DG sets to be used – 7W +1SB additional DG backup of 2250 kvA will be provided. Additional dedicated 2 DG for clients are also being provided
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

1. Roof = RCC 9 to 10 inch slab with 3 Inches of over deck/ under deck roof insulation of R-15.
U value = 0.352 W00/m2 ºC (0.062 Btu/hr.ft2.ºF)
2. External Walls= AAC block walls.
U value= U factor: 0.329 W/m2 ºC (0.058 Btu/hr.ft2.ºF)
3. Fenestration= Double glazed window, Glass U value= 2.8 W/m2 K, SHGC =Less than 0.28, VLT = 40-50%
4. Lighting Power Density : Less than 1 w/ sft,
5. High efficient air cooled and Water cooled chillers.
6. Heat recovery wheels with more than 75% efficien

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Most of the common area lighting are proposed to work on high energy efficient lamps (CFL /T5 /T8) as specified in bureau of energy efficiency, also the lighting power density will be restricted to 0.7 watts/sqft.	15.32%
2	The HVAC Plant proposed is highly efficient which uses Water based chillers with COP of 6.1 and Cooling Tower with Variable speed	12%
3	The project uses highly efficient double glazed unit (DGU),	5%
4	The external wall is made up of AAC building blocks with plaster and roof with insulation and high albedo paint	5%
5	Highly efficient AHU's with heat recovery wheels	9.83%

50.Details of pollution control Systems

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

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Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2241.0 lacs
	O & M cost:	9.0 lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	1	Barricading	150.0
2	2	Water Sprinking	50.0
3	3	Labour amenities	150.0
4	4	Environmental monitoring	10.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	1	STP and Grey water recycling	250.0	37.5
2	2	Green belt and other landscape development	150.0	25.0
3	3	Storm water drain & Rain water Harvesting Systems	80.0	2.5
4	4	Environmental monitoring	4.00	1.0
5	5	EHS Management cell	833.43	18
6	6	Solid Waste Management	0	10.8
7	7	Energy Conservation	2241.0	9.0
8	8	LEED Certification	33.0	0.0

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:	4 entry exits to the project site on 3 different roads. The exit opens to a service road on the east and to 21.35 m DP Road (35 m ROB) on the south. The exit on the west through an access road leads to Walbhat road.

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Parking details:	**Number and area of basement:**	2 Basements + LG + MLCP - B 11 (42496.56 sqm)
	Number and area of podia:	No parking on podium
	Total Parking area:	27376.58 + 15120.00 = 42496.58 sqm
	Area per car:	39.0 sqm/car
	Area per car:	39.0 sqm/car
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	1090 cars
	Public Transport:	24 no. of 17 seater buses
	Width of all Internal roads (m):	12 m
	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 approx. 7.5 Km towards North East
	Category as per schedule of EIA Notification sheet	Category 8(b) Township and Area Development
	Court cases pending if any	No
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	09-02-2016

Brief information of the project by SEAC

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Representative of PP, Rahul Sagar was present during the meeting along with environmental consultant M/s Aditya. PP informed that they have received earlier EC vide letter dated 28/09/2007 which is amended on 17/05/2016 for total construction area of 2,87,054 m2. PP submitted following details for the proposed project.

Committee noted the comparative changes due to proposed expansion/amendment.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that the project is earlier considered in 46th & 50th meeting of SEAC II. PP submitted EIA report. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 1,06,608.10 m2 & total construction area proposed in this meeting of the project is 4,59,554 m2. 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

During discussion following points emerged:

1. PP to submit revised compliance report with comparative statements of conditions stipulated in earlier EC.

2. PP to provide air cleaning system in basements.

3. PP to achieve 15% energy savings through renewable component & submit revised energy calculations indicating the same.

4. PP to submit e-waste management plan as per standard guidelines.

5. PP to ensure that width of internal roads in the project should be minimum 12 m. As mentioned, ground coverage should be 39.19%.

6. PP to ensure that mandatory RG provided should be on ground***.***

7. PP to submit details on the transportation services provided for the employees along with quantification.

8. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Building & Construction Project

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Dattani Village
2.Type of institution	Private
3.Name of Project Proponent	Shri Brijesh Dattani
4.Name of Consultant	M/s S G M Corporate Consultant Pvt Ltd
5.Type of project	Residentiul cum commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No.252A, 255A, S.No.256, H.No.2,4 S.No.257, H.No.2/1, 3, 4, 5, 10/1,11,
9.Taluka	Vasai
10.Village	Sandor
11.Area of the project	VVCMC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: CIDCO/VVSR/CC/BP-736/W/4429 / 21/02/2003 & VVCMC/TP/RDP/VP- 0762/0334/ 2013-14 dated 09/01/2014
	Approved Built-up Area: 55701.51
13.Note on the initiated work (If applicable)	This is an old ongoing project which is started prior to July 2004. The constructed area of proposed buildings after 14/09/2006 is 15818.55 sq. m
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	66490.00
16.Deductions	8442.96
17.Net Plot area	58047.04
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 55,701.51
	b) Non FSI area (sq. m.): 24,957.76
	c) Total BUA area (sq. m.): 87968.63
19.Total ground coverage (m2)	21,250.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	34
21.Estimated cost of the project	985000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential	G + 7	25.10
2	Residential	ST +7	25.10
3	Residential	ST +3	15.10
4	Shopping Center	B+ G +2	14.50
5	Office building	G + 7	21.10
6	School Building	G + 2	10.50
7	Club House	B + G + 3	15.25

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23.Number of tenants and shops	Tenements : 306; Shops : 38
24.Number of expected residents / users	1530
25.Tenant density per hectare	300
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5
29.Existing structure (s) if any	02 Resi Building No. & 2 Commercial Bldgs (existing having 26970.67 Sq.m BUA)
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**	VVCMC
	Fresh water (CMD):	176
	Recycled water - Flushing (CMD):	126
	Recycled water - Gardening (CMD):	30
	Swimming pool make up (Cum):	05
	Total Water Requirement (CMD) :	332
	Fire fighting - Underground water tank(CMD):	50,100,75, 50 & 50
	Fire fighting - Overhead water tank(CMD):	25, 50, 35, 25, 25
	Excess treated water	79

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Wet season:	**Source of water**	VVCMZ
	Fresh water (CMD):	176
	Recycled water - Flushing (CMD):	126
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	05
	Total Water Requirement (CMD) :	302
	Fire fighting - Underground water tank(CMD):	50,100,75, 50 & 50
	Fire fighting - Overhead water tank(CMD):	25, 50, 35, 25, 25
	Excess treated water	109
Details of Swimming pool (If any)	i swimming pool is proposed , having dimension of 18 x 12.5 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:**	5-6 m
	Size and no of RWH tank(s) and Quantity:	10 nos. X (1.0 mtr. Ø x 5.0 mtr. Deep) ring well
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	10
	Size of recharge pits :	Size (1.0 x 0.5 x 1.0) m
	Budgetary allocation (Capital cost) :	25.0
	Budgetary allocation (O & M cost) :	1.0
	Details of UGT tanks if any :	Domestic, Flushing & firefighting as per nomrs

35.Storm water drainage	**Natural water drainage pattern:**	Yes
	Quantity of storm water:	1.32 cum/Sec
	Size of SWD:	600 x 350 mm

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Sewage and Waste water	**Sewage generation in KLD:**	245
	STP technology:	MBBR
	Capacity of STP (CMD):	03 (75, 100, 125) KLD
	Location & area of the STP:	ground ; total area about 300 sq.m
	Budgetary allocation (Capital cost):	85
	Budgetary allocation (O & M cost):	10.75

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	100-150 kg/day
	Disposal of the construction waste debris:	Low lying area of site/ approved site.
Waste generation in the operation Phase:	**Dry waste:**	624 kg/day
	Wet waste:	691 kg/day
	Hazardous waste:	00
	Biomedical waste (If applicable):	00
	STP Sludge (Dry sludge):	40 kg
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Segregated/Sale/Collected by local authority
	Wet waste:	Composting through OWC/Vvermipits & used at site/ Handed over to local as manure
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	55.12 sq.m
	Area for machinery:	8.0 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18.0
	O & M cost:	2.25

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			

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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 :**	8187.28 sq.m
	No of trees to be cut :	Nil
	Number of trees to be planted :	800
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	Decemeber 2017

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	70	Drought tolerant, ornamental & medicinal plant
2	Mimusops elengi	Bakul	50	Evergreen tree, timber yielding and medicinal plant
3	Nyctanthes arbor-tristis	Parijatak	50	Flowery tree, the seeds, leaves and flowers all have medicinal value
4	Lagerstroemia flos-regineae	Tamhan	50	Evergreen tree,
5	Murraya paniculata	Kunti	50	Flowery tree,

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6	Saraca asoka	Sita Ashok	270	Evergreen medicinal plant Nitrogen fixer, ornamental plant
7	Bauhinia racemosa	Apta	50	hady tree for roadside plantation
8	Azadirachta indica	Neem	50	Shady tree for roadside plantation and has medicinal uses
9	Ficus religosa	Peeple	05	Evergreen & bird attracting tree
10	Tamarandus Indica	Imli	10	fruit tree & bird attracting
11	Butea monosperma	Palash	140	Used in pesticide & dye preparation
12	Syzigium cumini	Jamun	05	fruit tree & bird 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	attached	attached	attached

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	325 KVA
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	12520 KVA
	During Operation phase (Demand load):	6140 KVA
	Transformer:	6 X 1250 KVA
	DG set as Power back-up during operation phase:	630 X 2, 500, 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

? Light fixtures will be used with energy saving LED & T5 fluorescent tube with electronic chocks.
? Use of Solar energy for street lightings and solar water heater.
? Small capacity transformers having low no load and load losses.
? Selection of Energy efficient equipments (BEE STAR RATED)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	use of LED lights, , Common light on solar, energy efficient euipments	15.20 % (in common area lightings)

50.Details of pollution control Systems

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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:**	65.00 Lacs
	O & M cost:	3.75 Lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Sanitation	pH, BOD, COD, TSS	8.0
2	Health Check up	Na	2.0
3	Safety	NA	5.0
4	Water	as per IS 10500	5.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	MBBR	85.00	10.75
2	RWH SYSTEM	Ringwells & Pits	25.00	1.0
3	Environmental Monitoring	, Air, Noise, water, Soil	00	1.50
4	Solid Waste Management	pH, NPK	18.00	2.25
5	Energy conservation	LED, Solar	65.00	3.75
6	Green Belt	Trees Plantation	25.00	4.25

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:	02

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Parking details:	**Number and area of basement:**	01 in Commercial Building
	Number and area of podia:	00
	Total Parking area:	14,302.00 sq.m
	Area per car:	25 to 30 sq.m
	Area per car:	25 to 30 sq.m
	Number of 2-Wheelers as approved by competent authority:	898
	Number of 4-Wheelers as approved by competent authority:	806
	Public Transport:	Bus STOP at 100 m
	Width of all Internal roads (m):	6.0 to 9. m
	CRZ/ RRZ clearance obtain, if any:	NA as per prevailing CZMP Map of Vasai Virar region.
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	(8a) B2
	Court cases pending if any	NA
	Other Relevant Informations	This case is recommended by SEAC-2 in 50th meeting in september 2016.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	25-07-2016

Brief information of the project by SEAC

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Minutes of 50th SEIAA meeting :

Representative of PP, Brijesh Dattani & Sanjay Narang were present during the meeting along with environmental consultant M/s SGM. Following information has been given by PP for completed construction: _

- PP has obtained first development permission from Asst. collector Vide letter no. No.BD/NAP/SR/9/86 dated 11.05.1987 and started the construction activity accordingly & stopped the work due to order of collector dated 09.02.88.
- Stay was vacated by the Collector, Thane vide order dated 21.07.97.
- PP has again obtained building permission of subjected scheme on dated 21/02/2003 from CIDCO.
- PP had again started construction activities in 2003 and obtained occupation certificates of three buildings.
- Further PP has obtained revised development permission in 31.03.2005 prior to EIA notification 14/9/2006. PP has obtained latest development permission in year 09/01/2014 and constructed about 15818.55 sq.m area after the date of notification

PP informed that they have completed construction admeasuring 15,818.55 m2. Further, PP requested to reappraise the project as per circular of Environment Dept. dated 21/04/2015 issued on the basis of High Court orders. Committee observed that construction admeasuring 15,818.55 m2 prior to EC is violation of the provisions of EIA Notification. However, considering High Court orders and subsequent circular of Environment Department dated 21/04/2015, Committee appraised the matter. PP submitted details for construction undertaken prior to EIA Notification, 2006.

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 PP stated that total plot area is 66,490 m2 & total construction area of the project is 87,968.63 m2. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. PP submitted revised solid waste calculations. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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During discussion following points emerged:

1. PP & Architect to submit undertaking on legal paper regarding construction undertaken is by them is less than 20,000 m2 & if it is false, PP is liable for further legal action as per the law. 2. PP to submit detailed statement for the construction completed till date.PP to submit chronology of permissions obtained and construction undertaken accordingly to ascertain violation, if any, in the matter for the buildings constructed prior to EIA notification & after EIA notification.

3. It is observed that there is no sewer line constructed up to the project site. Therefore, 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.

4. Further, PP informed that sewerage of the existing building is going to the storm water drainage lines. PP to connect the sewage generating from the existing buildings to the STP and submit revised detailed calculations of the same. Also submit details of suitable technology for STP wrt. availability of power.

5. PP to submit letter of commitment for drinking water to the project from Municipal Corporation.

6. PP to ensure that BOD of the treated water should be 5 mg/lit.

7. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Proposed Composite H.S.G. Scheme On Land Bearing S.No.58/1 (P), 58/2 (P), 58/3 (P), Sr. No 59/A3 (P), 60/3 (P), 63/1 (P), Sr. No 63/2 & Sr. No 63/3 At Shrirampur, District-Ahmednagar, Maharashtra

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort,Mumbai-01 Time : 10.00 AM

1.Name of Project	Proposed Composite H.S.G. Scheme On Land Bearing S.No.58/1 (P), 58/2 (P), 58/3 (P), Sr. No 59/A3 (P), 60/3 (P), 63/1 (P), Sr. No 63/2 & Sr. No 63/3 At Shrirampur, District-Ahmednagar, Maharashtra
2.Type of institution	Government
3.Name of Project Proponent	Nashik Housing & Area Development Board
4.Name of Consultant	M/s. Fine Envirotech Engineers
5.Type of project	MHADA
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	Land Bearing S.No.58/1 (P), 58/2 (P), 58/3 (P), Sr. No 59/A3 (P), 60/3 (P), 63/1 (P), Sr. No 63/2 & Sr. No 63/3 At Shrirampur, District-Ahmednagar, Maharashtra
9.Taluka	Shrirampur
10.Village	Shrirampur
11.Area of the project	Shrirampur Municipal Council, Shrirampur
12.IOD/IOA/Concession/Plan Approval Number	Proposed MHADAs Composite Housing Scheme is approved by Shrirampur Municipal Council, Shrirampur vide letter dated 15/07/2014
	IOD/IOA/Concession/Plan Approval Number: Plan Approval Number - RBP/00013/2014-15 dated: 15/7/2014
	Approved Built-up Area: 45263.60
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	51400 sq.mt.
16.Deductions	8354.44 sq.mt.
17.Net Plot area	43045.56 sq.mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 45263.60 sq.mt.
	b) Non FSI area (sq. m.): 2309.58 sq.mt
	c) Total BUA area (sq. m.): 47573.18 sq.mt.
19.Total ground coverage (m2)	11800 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	26.07 %
21.Estimated cost of the project	777300000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No. 1 (MIG) with 3 Wings A, B, C	Ground +3	12.29
2	Building No.2 (MIG) with 3 Wings A, B,C	Ground +2	9.33
3	Building No.3 (LIG) with 4 Wings A, B,C,D	Ground +3	11.65

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4	Building No.4 (LIG) with 3 Wings A,B,C	Ground +3	11.65
5	Building No.5 (LIG) with 3 Wings A,B,C	Ground +3	11.65
6	Building No.6 (MIG) with1 Wing A	Ground +3	12.29
7	Building No.7 (MIG) with 1 Wing A	Ground +3	12.29
8	Building No.8 (EWS) with 7 Wings A,B,C,D,E,F,G	Ground +3	11.65
9	Building No.9 (EWS) with 2 Wings A,B	Ground +3	11.65
10	Building No.10 (MIG) with 5 Wings A,B,C,D,E	Ground +3	12.29
11	Building No.11 (EWS) with 3 Wings, A,B,C	Ground +3	11.65
12	Building No.12 (EWS) with 4 Wings A, B,C,D	Ground +3	11.65
13	Building No.13 (EWS) with 4 Wings A,B,C,D	Ground +3	11.65
14	Building No.14 (EWS) with 2 Wings A,B	Ground +2	8.85
15	Building No.15 (EWS) with 5 Wings A,B,C,D,E	Ground +3	11.65
16	Building No.16 (LIG) with 6 Wings A,B,C,D,E,F	Ground+3	11.65
17	Building No.17 (LIG) with 6 Wings A,B,C,D,E,F	Ground +3	11.65
18	Shopping Complex (1 no.)	Ground	4.50

23.Number of tenants and shops	Total Residential Tenements - 908 nos Total Shops - 87 nos Shopping Complex - 1 no. (402.45 sq.mt)
24.Number of expected residents / users	Residential users - 4540 nos. and Commercial Users - 254 nos.
25.Tenant density per hectare	215 tenements /hectares
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable (Buildings are G+3 structure. Height of Building 12.29 m and accessible from 18 m wide road)
29.Existing structure (s) if any	Not applicable

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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**	Shrirampur Municipal Water supply
	Fresh water (CMD):	413
	Recycled water - Flushing (CMD):	211
	Recycled water - Gardening (CMD):	24
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	648
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	268
Wet season:	**Source of water**	Shrirampur Municipal Water supply
	Fresh water (CMD):	413
	Recycled water - Flushing (CMD):	211
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	624
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	295
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)	Loss (CMD)	Effluent (CMD)

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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:**	5 m
	Size and no of RWH tank(s) and Quantity:	Nil
	Location of the RWH tank(s):	Nil
	Quantity of recharge pits:	10 nos.
	Size of recharge pits :	1.5 M x 1.5 M x 1.5M
	Budgetary allocation (Capital cost) :	25 Lakhs
	Budgetary allocation (O & M cost) :	9 Lakhs
	Details of UGT tanks if any :	Domestic UG tank Capacity - 206840 Liters Flushing UG tank Capacity - 105350 Liters
35.Storm water drainage	**Natural water drainage pattern:**	Storm water collection is proposed separately in project premises
	Quantity of storm water:	0.59 cum/sec
	Size of SWD:	300 mm, 450 mm and 600 mm wide
Sewage and Waste water	**Sewage generation in KLD:**	561 KLD
	STP technology:	Shall be connected to Municipal STP
	Capacity of STP (CMD):	Shall be connected to Municipal STP
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	Not applicable
	Budgetary allocation (O & M cost):	Not applicable

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste
	Disposal of the construction waste debris:	To be disposed by handing over to authorized contractor
Waste generation in the operation Phase:	**Dry waste:**	959 Kg/day
	Wet waste:	1387 Kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	28 Kg/day
	Others if any:	Not applicable

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Mode of Disposal of waste:	**Dry waste:**	Disposed by handing over to authorized contractor
	Wet waste:	Will be composted
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Open space
	Area for the storage of waste & other material:	216 sq.mt
	Area for machinery:	7.5 sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	35 Lakhs
	O & M cost:	15 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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43.Green Belt Development	**Total RG area :**	4848.55 sq.mt
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	300 nos.
	List of proposed native trees :	Neem, Chikoo, Sitaphal, Apta, Kateshwar, Bahava, Peru, Mango, Sita Ashoka, Tamhan, Son Chafa, Kadam, Kunti
	Timeline for completion of plantation :	2 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azardicata indica	Neem	20	Medicinal, Soil erosion control bird Squirrel monkey attracting fruit
2	Acrus sapota	Chikoo	15	Fruit bearing tree, Bird attracting
3	Annona squamosa	Sitaphal	15	Fruit bearing tree, Bird attracting
4	Bauhinea racemosa	Apta	30	Drought tolerant, Medicine
5	Bombax ceiba	Katesavar	25	Drought tolerant, Medicinal
6	Cassia fistula	Bahava	20	Medicinal, Bird attracting, Soil erosion control
7	Psidium guava	Peru	10	Fruit bearing tree, Bird attracting
8	Magnifera indica	Mango	20	Fruit bearing tree, Bird attracting
9	Saraca ashoka	Sita Ashoka	30	Medicinal, , Bee & Squirrel attracting flowers, Anti poison capacity, Fragrant flowers
10	Lagerstromia speciosa	Tamhan	40	Medicinal, control soil erosion
11	Michelia champaca	Son Chafa	30	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
12	Anthocephallus cadamba	Kadam	25	Shady, large tree, ball shaped flowers
13	Murraya paniculata	Kunti	20	Good for ornamental purpose
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	200 KW
	DG set as Power back-up during construction phase	150 KVA
	During Operation phase (Connected load):	2934.50 KW
	During Operation phase (Demand load):	3260.56 KVA
	Transformer:	8 nos. of 315 KVA
	DG set as Power back-up during operation phase:	1 DG set of 82.5 KVA capacity for STP
	Fuel used:	Deisel
	Details of high tension line passing through the plot if any:	Over head HT line removal in progress and underground cable lying in progress

48.Energy saving by non-conventional method:

T-5 Tube Lights of 28 W

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	T-5 Tube Lights of 28 W (Annual Energy Saving)	29871.60 kwh

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:**	10 Lakhs
	O & M cost:	2 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Site Safety	Barricading and dust suppression	12
2	Environmental Monitoring	Air, Noise, Water, Biological	6
3	Sanitary facility and waste water management	Mobile toilets	4
4	Solid waste management	Solid waste	3

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5	Occupational Health & Safety	Medical Checkup, PPE and First Aid Kit	6

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	Recharge pits	25	9
2	Environmental Monitoring	Air, Noise, Water, Biological	...	12
3	Solid Waste Management	OWC, Colored Dustbins	35	15
4	Energy Saving Measures	T5 Tube Lights of 28 W	10	2
5	Green Belt Development	RG area - 4848.55 sq.mt , Tree plantation	40	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:	Separate exit and entry point

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Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	7654.2 sq.mt
	Area per car:	25 sq.mt
	Area per car:	25 sq.mt
	Number of 2-Wheelers as approved by competent authority:	1098 nos.
	Number of 4-Wheelers as approved by competent authority:	69 nos.
	Public Transport:	Not applicable
	Width of all Internal roads (m):	6 m, 9 m, and 12 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 (a) - B2
	Court cases pending if any	Not applicable
	Other Relevant Informations	.....
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

SEIAA AGENDA-00000000005

Minutes of 55th SEAC-3 meeting:

PP submitted their application for prior Environment Clearance for total plot area of 51400.00 m2 BUA of 47573.18 sq.m and FSI area of 45263.60 sq.m. PP proposes to construct 17 nos. of residential buildings having 62 wings and 1 commercial building having maximum height of 12.29 Mtrs. The case was earlier considered in the 28th meeting of the SEAC - III held on 7th to 10th April 2015 when case was deferred. The case was again considered in 30th meeting of the SEAC - III held from 21st to 24th July 2015 and 44thmeeting of the SEAC - III held from 28th to 31st March 2016.

This committee took up the compliance report and other documents submitted by the Project Proponent for examination. The proposal is appraised as category 8 (a) B2.

DECISION OF SEAC

During discussion following points emerged:

1. PP informed that they have obtained full potential sanction.

2. PP to obtain NOC for training of Nallah from competent authority.

3. PP has received letter dated 9.04.2015 from CO, Shrirampur ,Municipal Council mentioning no objection to connect sewage line of project to their STP;PP to obtain specific NOC from Municipal council, Shrirampur that 561 CMD generated sewage from project will be accepted to connect it to municipal council STP.

SEAC decided to recommend the proposal for Prior Environmental Clearance, subject to PP complying with the above conditions.

Specific Conditions by SEAC:

SEIAA DECISION

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Proposed Residential Project at CTS no. 101, Survey 38 (pt) Village Tirandaz, Powai, Mumbai by M/s. Skyline Mansions Pvt. Ltd.

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort,Mumbai-01 Time : 10.00 AM

1.Name of Project	Residential Project
2.Type of institution	Private
3.Name of Project Proponent	Mr. Jaysinh Dave
4.Name of Consultant	ABC Techno Labs India Private Limited
5.Type of project	Residential Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	At CTS no. 101, Survey 38 (pt) Village Tirandaz, Powai, Mumbai , Maharashtra.
9.Taluka	Mumbai
10.Village	Tirandaz
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Obtained
	IOD/IOA/Concession/Plan Approval Number: Building No. 2 - CE/1193/BPES/AS & Building No.3 - CE/1194/BPES/AS
	Approved Built-up Area: 1,90,533.95 sq.m Concession approved by Municipal Commissioner Under File no. CE/1193/BPES/AS & CE/1194/BPES/AS dated 03.01.2017
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	1,23,647.25 m2
16.Deductions	86,446.21 m2
17.Net Plot area	37,201.01 m2
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 91,409.47 m2
	b) Non FSI area (sq. m.): 99,124.48 m2
	c) Total BUA area (sq. m.): 1,90,533.95 m2
19.Total ground coverage (m2)	12,962.0 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	34 % of Net Plot Area
21.Estimated cost of the project	5120000000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building - 2 (Wing A, B, C)	Basement + Ground + Podium + Stilt + 28 Floors	97.75
2	Building – 2 (Wing D, E, F)	Basement + Ground + 2 Nos. Podium + Stilt + 26 Floors	97.75
3	Building – 3 (Wing A, B, C)	Two Level Basement + Ground + Podium + Stilt + 28 Floors	97.75

23.Number of tenants and shops	Total tenants: 1249 Nos.

24.Number of expected residents / users	6,245 users
25.Tenant density per hectare	4113/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 Mtrs
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.0 Mtrs
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Municipal Water Supply
	Fresh water (CMD):	567
	Recycled water - Flushing (CMD):	281
	Recycled water - Gardening (CMD):	69
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	921
	Fire fighting - Underground water tank(CMD):	900
	Fire fighting - Overhead water tank(CMD):	450
	Excess treated water	294

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Wet season:	**Source of water**	Municipal Water Supply
	Fresh water (CMD):	567
	Recycled water - Flushing (CMD):	281
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	852
	Fire fighting - Underground water tank(CMD):	900
	Fire fighting - Overhead water tank(CMD):	450
	Excess treated water	363
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6 - 7 Mtrs
	Size and no of RWH tank(s) and Quantity:	7 RWH tanks with 390 cum. capacity
	Location of the RWH tank(s):	On ground
	Quantity of recharge pits:	5 Nos.
	Size of recharge pits :	5 Nos.
	Budgetary allocation (Capital cost) :	39.15 Lakhs
	Budgetary allocation (O & M cost) :	1.5 Lakhs
	Details of UGT tanks if any :	For each wing of Bldg. 2 respectively: A,B,C,D,E & F 1. Domestic Water tank Capacity: 426.0 m3 2. Raw Water tank Capacity: 320 m3 3. Fire Fighting tank Capacity: 600 m3 For Bldg. 3: 1. Domestic Water tank Capacity: 140 m3 2. Raw Water tank Capacity: 70 m3 3. Fire Fighting tank Capacity: 300 m3

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35.Storm water drainage	**Natural water drainage pattern:**	As per gravity
	Quantity of storm water:	0.930 Cum/Sec for building No-2 and 0.185 Cum/Sec for building No-3
	Size of SWD:	Varies from 300 mm to 1000 mm
Sewage and Waste water	**Sewage generation in KLD:**	720 KLD
	STP technology:	Moving bed biofilm reactor (MBBR)
	Capacity of STP (CMD):	1 STP of 720 KLD Capacity
	Location & area of the STP:	Above Ground
	Budgetary allocation (Capital cost):	108 Lakhs
	Budgetary allocation (O & M cost):	22.85 Lakhs/Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	28000 cum
	Disposal of the construction waste debris:	Will be Utilized in low-land leveling & base preparation of internal roads. Some quantity of Excavation soil will be use for backfilling and remaining will be hand over to authorize vendor.
Waste generation in the operation Phase:	**Dry waste:**	1124 kg/day
	Wet waste:	1686 kg/day
	Hazardous waste:	Spent oil or oil grease for DG sets, paints etc.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	22 kg/day
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Handed over to authorize vendor for further handling and disposal.
	Wet waste:	Will be converted to compost using Organic Waste Convertor.
	Hazardous waste:	Handed over to authorized Vendor/Recycler
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as manure for gardening
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	93 m2
	Area for machinery:	2.6 M x 7.2 M x 2.7M
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	45 Lakhs
	O & M cost:	2.95 Lakhs/Annum

37.Effluent Charecterestics

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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 :**	9817.89 m2
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	672 Nos.
	List of proposed native trees :	Azardirachta indica, Alstonia scholaris, Anthocephalus kadamba, Cassia fistula, Largerstroemia indica, Michelia champaca, Murraya exotica, Pongamia pinnata, Spathodea companulata, Tabebuia rosea
	Timeline for completion of plantation :	With compleation 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	Azardirachta indica	Neem	67	Native, Medicinal value, to control soil erosion, Evergreen
2	Alstonia scholaris	Satwin	48	Evergreen medicinal plant

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3	Anthocephalus kadamba	Kadamb	38	Medicinal value, timber yielding plant, suitable for reforestation, ornamental plant
4	Cassia fistula	Cassia fistula	80	Medicinal value, Drought tolerant species, ornamental, flowering plant, Honey bee attracting species, Host plant for Butterfly
5	Largerstroemia indica	Tamhan	92	creates shade, attracts birds/butterflies/bees, good for screening
6	Michelia champaca	Son chafa	98	Fragrant flowers or leaves, attracts birds/butterflies/ bees, evergreen tree
7	Murraya exotica	Kunti	105	Medicinal & ornamental plant
8	Pongamia pinnata	Karanj	41	Medicinal& Biodiesel yielding Plant
9	Spathodea companulata	Akash Shevga/Fountain Tree	57	Shade giving ornamental plant
10	Tabebuia rosea	Basant rani/Pink trumpet	46	Flowering, Shade giving, Drought Tolerant
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	200 KW
	DG set as Power back-up during construction phase	3 x 125 KVA, 1 x 250 KVA & 3 x 625 KVA
	During Operation phase (Connected load):	25086.0 KW
	During Operation phase (Demand load):	8276.0 KW
	Transformer:	6 x 2000 KVA
	DG set as Power back-up during operation phase:	3 x 125 KVA, 1 x 250 KVA & 3 x 625 KVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Total Energy saving by Non-Conventional method will be 12 %

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49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of CFL/LED Lamps, Solar power, Use of VFD & APFC panel , • Electronic VFD for Elevators,	Total - 25 %

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:**	227 Lakhs
	O & M cost:	27.2 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	Dust control	3.0
2	Site Sanitation, Safety & Disinfection	Workers Health	4.0
3	Environmental Monitoring	Air, Water, Soil, Noise Sampling & testing	4.0
4	Health Check up	Routine Health checkup of Workers	2.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Sewage treatment	108	22.85
2	Solid waste management	Disposal of Wer and Dry waste	45	2.95
3	Landscape	Green belt deveopment	105	6.0
4	Rain water harvesting	Infrastucture of RWH	39.13	1.5
5	Energy Saving	Energy saving features	227	27.2
6	Environment Management	Environmental monitoring	Not applicable	6

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

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52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	No. of Junction 2
Parking details:	**Number and area of basement:**	Building 2 – 1 Basement, Building 3 – Two Level Basement, Total Area of Basement: 20,623.74 m2
	Number and area of podia:	Two podium (Podium / Stilt) for both 2 and 3 Building, Area of Podium : 17121.86 m2 , Area of Stilt : 14823.14 m2
	Total Parking area:	Total Car Parking Area - 35079.98 m2
	Area per car:	Ranging From 13.60 m2 to 28.48 m2 for ground, basement, podium and stilt.
	Area per car:	Ranging From 13.60 m2 to 28.48 m2 for ground, basement, podium and stilt.
	Number of 2-Wheelers as approved by competent authority:	251 Nos.
	Number of 4-Wheelers as approved by competent authority:	1848 Nos.
	Public Transport:	Not applicable
	Width of all Internal roads (m):	6 m to 7.5 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay gandhi national parkt - 4.9 Km
	Category as per schedule of EIA Notification sheet	8 a (B1)
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-11-2015

Brief information of the project by SEAC

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Minutes of 51st SEAC-2 meeting :

Representative of PP, Jaisingh Dave & Architect Manoj Dahsaria were present during the meeting along with environmental consultant M/s ABC Techno labs P L.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that project was earlier considered in 42nd & 50th meetings of SEAC II. PP submitted EIA report. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed PP stated that total plot area is 1,23,647.25 m2 & total construction area of the project is 1,90,533.95 m2. Committee noted that the project under 8a (B1) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit revised HRC NOC.

2. PP, if applicable, to obtain NOC from Wild Life Board in terms of OM of MoEF dated 30/03/2015. Further, it is informed that part of the project falls within 4.9 km of SGNP. PP & concerned Municipal Corporation to ensure the compliance of the NGT order dated 03/12/2015 in the application MA.No.125/2014 before issuing commencement certificate for further construction permissions in the area.

3. PP as agreed to provide 30 air exchangers & air cleaning system in the basement.

4. PP to submit revised Disaster Management plan.

5. No cutting & filling

6. PP to submit revised social economic status of the projects.

7. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

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SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Envirobmental Clearance for Proposed Redevelopment of BIT Chawl No. 01 to 06 at Property bearing C.T. S. No. 427 & 2/430 of Bhuleshwar Division of C Ward Chira Bazar Chandanwadi, Mumbai. Maharashtra by M/s. Valencia & Mishal Ventures Pvt. Ltd.

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Valencia & Mishal Ventures Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Aatif Yakub, VALENCIA & MISHAL VENTURES PVT. LTD.
4.Name of Consultant	Dr. D. A. Patil; Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Redevelopment project
6.New project/expansion in existing project/modernization/diversification in existing project	Proposed Redevelopment of BIT Chawl No. 01 to 06
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Property Bearing C.T. S. No. 427&2/430, Chira Bazar Chandanwadi, Of Bhuleshwar Division Of C Ward, Mumbai, Maharashtra.
9.Taluka	Mumbai
10.Village	Bhuleshwar Division of C Ward Chira Bazar Chandanwadi
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	LOI Received from MCGM dated. 19.03.2016
	IOD/IOA/Concession/Plan Approval Number: LOI Received from MCGM dated. 19.03.2016
	Approved Built-up Area: 35125.74
13.Note on the initiated work (If applicable)	No work has been initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI Received from MCGM dated. 19.03.2016
15.Total Plot Area (sq. m.)	9,168.13 m2
16.Deductions	Nil
17.Net Plot area	9,168.13 m2
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 35125.74 m2
	b) Non FSI area (sq. m.): 45498.26 m2
	c) Total BUA area (sq. m.): 91929.92 m2
19.Total ground coverage (m2)	4950.79 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	54.01%
21.Estimated cost of the project	3030000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Building : Building No. 1	(Wing A, B, C & D): Gr/St+22nd Floors)	68 m
2	Rehab Building : Building No. 2	Gr/St +17th (pt) Floors	68 m
3	Sale building	2B+Gr+8P+ST+33rd Floors	143.55 m

23.Number of tenants and shops	Rehab Building: 705 Nos of flats. Sale Building: 139 nos of flats.Commercial Area, Bank and Welfare Centre Municipal Clinic and Municipal Dispensary and Religious Structure

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24.Number of expected residents / users	Rehab Building Population: 3,655 Nos; Sale Building Population: 695 Nos.
25.Tenant density per hectare	921/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)	29.30 m wide Shamaldas Gandhi marg from South side and 13.40 m wide Chandan Wadi Road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	8 m to 11 m
29.Existing structure (s) if any	Yes, The existing 6 Residential buildings, Municipal Clinic Building, Society Office, B.M.C house will be demolished.
30.Details of the demolition with disposal (If applicable)	The existing buildings will be demolished. Demolition Quantity: 5200 m3

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Municipal Corporation of Greater Mumbai (MCGM)
	Fresh water (CMD):	382
	Recycled water - Flushing (CMD):	197
	Recycled water - Gardening (CMD):	3
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	576
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	335

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Wet season:	**Source of water**	Municipal Corporation of Greater Mumbai (MCGM)
	Fresh water (CMD):	321
	Recycled water - Flushing (CMD):	194
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	576
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	335
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:**	4-5 m
	Size and no of RWH tank(s) and Quantity:	RWH : 3 tanks will be provided with total capacity 122 m3
	Location of the RWH tank(s):	Rehab:- Below Ground; Sale:- Below Ground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	28 Lakh
	Budgetary allocation (O & M cost) :	2 Lakh/Year
	Details of UGT tanks if any :	Rehab:- Under Ground Sale:- Under Ground

35.Storm water drainage	**Natural water drainage pattern:**	Towards west side
	Quantity of storm water:	1060 m3/hr
	Size of SWD:	600 mm dia SWD

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Sewage and Waste water	**Sewage generation in KLD:**	537 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	Sale STP: 475 KLD; Rehab STP: 100 KLD
	Location & area of the STP:	Rehab:- Ground; Sale:- Ground
	Budgetary allocation (Capital cost):	121 Lakh
	Budgetary allocation (O & M cost):	23 Lakh/Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: 2,633 m3; Demolition waste: 5,200 m3
	Disposal of the construction waste debris:	The construction debris/demolition waste will be disposed as per the "Construction and Demolition and Desilting Waste (Management and Disposal) Rules 2006.
Waste generation in the operation Phase:	**Dry waste:**	854.4 kg/day
	Wet waste:	1281.6 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	200 kg/month
	STP Sludge (Dry sludge):	5 m3/day
	Others if any:	NA
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 and used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Biomedical waste will be handed over to MPCB & MCGM authorized vendor for disposal as per Biomedical Waste Handling rules 2016
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	Rehab:- Ground; Sale:- Ground
	Area for the storage of waste & other material:	Ground
	Area for machinery:	50 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	52 Lakh
	O & M cost:	21 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			

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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 : 741.51 m2
	No of trees to be cut :	NO trees will be cut
	Number of trees to be planted :	55 Nos.
	List of proposed native trees :	as below
	Timeline for completion of plantation :	2 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shirish	10	Shady tree, yellowish green fragrant flowers
2	Mimusops elengi	Bakul	10	Shady tree, small white fragrant flowers
3	Nyctanthes arbor-tristis	Parijatak	10	Small deciduous fast growing tree, beautiful flowrers.
4	Caryota urens	Fish tail palm	8	Tall evergreen tree
5	Michelia champaca	Son chafa	7	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant

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6	Areka Katechu	Supari	10	Tall evergreen tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	BEST
	During Construction Phase: (Demand Load)	250 kVA
	DG set as Power back-up during construction phase	250 kVA
	During Operation phase (Connected load):	7.5 MW
	During Operation phase (Demand load):	4.49 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	Capacity of DG sets will be provided to Rehab: 1 x 625 kVA and Sale: 1 x 350 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

? Efficient wall systems like solid blocks with fly ash content
? Energy efficient lighting using T5 lamps, CFLs in offices and LEDs in Lift Lobby, Toilets & Core area Passages
? Solar lighting on street and RG area
? Use of high energy efficient pumps for fire fighting, UG tanks and STP
? Common Area lighting through Solar PV Panels
? Energy efficient lighting fixtures (LED lights) to all buildings

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saving 36%	Total Energy Saving 36%
2	16 % Savings through Renewable energy	16 % Savings through Renewable energy

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	35 Lakh
	O & M cost:	1.5 Lakh/Year

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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
2	Site sanitation (Toilets)	-	4
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)	3
4	Potable Water Supply to Labour Camp	-	5
5	Health check-up & first aid	-	5
6	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	12
7	Traffic Management	(Sign Boards, Persons at entry exit and Parking area)	3
8	Safety nets	-	14
9	Tyre cleaning and Vehicle maintenance	-	3
10	Solid Waste Management & Site maintenance activity	-	4
11	Safety - Training to Workers (Twice in Year), Safety Officer	-	8

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M Environment Monitoring: Monthly, STP outlet water quality for pH, BOD, COD, SS and O & G	121	23
2	Solar Hot water and Solar Street Light	Weekly	35	1.5
3	Solid waste management	Continuous O & M Environment Monitoring: Monthly to assess the compost quality	52	21

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4	Rainwater harvesting	During rainy season (cleaning of UG tanks and filtration units before rainy season)	28	2
5	Landscape	Daily	15	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:	The project site is accessed by 29.30 m wide Shamaldas Gandhi Marg from south side and 13.40 m wide Chandan Wadi Road from north.
Parking details:	**Number and area of basement:**	2 Basement: 4755.82 m2
	Number and area of podia:	8 Podium for Sale Building: 26008.08 m2
	Total Parking area:	23499.02 m2
	Area per car:	Basement :- 32.92 m2 Ground/Stilt:- 23.34 m2
	Area per car:	Basement :- 32.92 m2 Ground/Stilt:- 23.34 m2
	Number of 2-Wheelers as approved by competent authority:	Nil
	Number of 4-Wheelers as approved by competent authority:	426
	Public Transport:	-
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	Project site is situated beyond 100 m CRZ Setback area from HTL of Back Bay as per approved CZMP and CRZ Notification, 2011
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA

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	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	-

Brief information of the project by SEAC

Minutes of 51st SEAC-2 meeting :

Representative of PP, Aatif Yakub & Architect Poonam Naik were present during the meeting along with environmental consultant M/s Mahabal. PP submitted minutes of 113rd meeting of MCZMA for their project proposal. PP stated that the existing's buildings are in dilapidated condition and needs redevelopment. The existing 6 Residential buildings, Municipal Clinic Building, Society Office Religious Structure & BMC house will be demolished. Proposed redevelopment project consists of One Sale Building & Two Rehab Buildings.

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. PP stated that total plot area is 9,168.13 m2 & total construction area proposed in this meeting of the project is 91,929.92 m2. 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

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During discussion following points emerged:

1. PP as agreed to adjust stack parking to keep the evacuation time up to 20 minutes.

2. PP informed that they have not received HRC permission. PP to obtain same.

3. It is observed that STP is under the road. PP to provide adequate ventilation measures for the STP.

4. PP to submit light & ventilation analysis for entire stretch of floors of all buildings.

5. PP to provide remedial measures for provisions of adequate light & ventilation for the buildings D, E & F which are under shadow.

6. PP to provide air cleaning system in basements.

7. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon?ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

Approved

Specific Conditions by SEIAA:

1) Commencement Certificate will be issued by MCGM only after High Rise Committee accords permission to the project.

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Proposed Residential & Commercial Project â??Ambika estateâ?? At survey no. 7, 8, 9, 13 to 15, 19, 22 to 28, 30, 31 pt. & pardi (2) of Village borpada, Taluka: Bhiwandi, District: Thane, Maharashtra.

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort,Mumbai-01 Time : 10.00 AM

1.Name of Project	Proposed Residential & Commercial Project â??Ambika estateâ??
2.Type of institution	Private
3.Name of Project Proponent	Mr. Anup Shyam Karnani
4.Name of Consultant	ABC Techno Labs India Private Limited
5.Type of project	Residential & Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey no. 7, 8, 9, 13 to 15, 19, 22 to 28, 30, 31 pt., & pardi (2) of Village borpada, Taluka: Bhiwandi
9.Taluka	Bhiwandi
10.Village	Borpada
11.Area of the project	Mumbai Metropolitan Region Development Authority (MMRDA)
12.IOD/IOA/Concession/Plan Approval Number	Development Control Regulations for Bhiwandi Surrounding Notified Area.
	IOD/IOA/Concession/Plan Approval Number: MMRDA Approval No. SROT/BSNA/2501/BP/Borpada-01/492/2017 dated 12.04.2017
	Approved Built-up Area: 710433.304
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	252289.0 m2
16.Deductions	49150.87 m2
17.Net Plot area	203138.13 m2
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 406901.53 m2
	b) Non FSI area (sq. m.): 331897.19 m2
	c) Total BUA area (sq. m.): 738798.72 m2
19.Total ground coverage (m2)	100553.37
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.5 % of net plot area
21.Estimated cost of the project	19000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Total 52 Nos. of Buildings including Shops	Ground/stilt + 18 Floors	54 Mtrs
2	1 School Building	Not applicable	Not applicable

23.Number of tenants and shops	Total Tenants: 7132 Nos. & Shops: 40 nos.
24.Number of expected residents / users	38474 Users

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25.Tenant density per hectare	1750-1900/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 Mtrs
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 mtrs to 9.0 mtrs
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	STEM Water Distribution & Infrastructure Co. Pvt. Ltd./Recycled
	Fresh water (CMD):	3286.0
	Recycled water - Flushing (CMD):	1711.0
	Recycled water - Gardening (CMD):	480.0
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5778.0
	Fire fighting - Underground water tank(CMD):	100 Cum for each wing/building
	Fire fighting - Overhead water tank(CMD):	25 Cum for each wing/building
	Excess treated water	1761.0

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Wet season:	**Source of water**	STEM Water Distribution & Infrastructure Co. Pvt. Ltd./Recycled
	Fresh water (CMD):	3286.0
	Recycled water - Flushing (CMD):	1711.0
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	5298.0
	Fire fighting - Underground water tank(CMD):	100 Cum for each wing/building
	Fire fighting - Overhead water tank(CMD):	25 Cum for each wing/building
	Excess treated water	2241.0
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	0.50 m to 6.00 m
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	208 Nos.
	Size of recharge pits :	2.5 Mtrs of Diameter with Area of 4.906 m2
	Budgetary allocation (Capital cost) :	14.5 Lakhs
	Budgetary allocation (O & M cost) :	1.5 Lakhs / Annum
	Details of UGT tanks if any :	Common UG tank for Phase 1: i. Domestic Water tank Capacity: 810 m3 ii. Flushing Water tank Capacity: 409 m3 iii. Fire Fighting tank Capacity: 100 m3 for each bldg. Common UG tank for Phase 2: i. Domestic Water tank Capacity: 1918 m3 ii. Flushing Water tank Capacity: 978 m3 iii. Fire Fighting tank Capacity: 100 m3 for each bldg. Common UG tank for Phase 3: i. Domestic Water tank Capacity: 558 m3 ii. Recycled Water tank Capacity: 324 m3 iii. Fire Fighting tank Capacity: 100 m3 for each bldg.
35.Storm water drainage	**Natural water drainage pattern:**	As per gravity
	Quantity of storm water:	3324 mm
	Size of SWD:	1000 mm x 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	4295.0 KLD
	STP technology:	Moving Bed Biofilm Reactor (MBBR)
	Capacity of STP (CMD):	7 STP's of 4725 KLD Capacity
	Location & area of the STP:	Above Ground
	Budgetary allocation (Capital cost):	1248 lakhs
	Budgetary allocation (O & M cost):	125 lakhs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	13000 cum
	Disposal of the construction waste debris:	Used for Leveling Purpose
Waste generation in the operation Phase:	**Dry waste:**	5041 Kg/day
	Wet waste:	11620 kg/day
	Hazardous waste:	Spent oil or oil grease for DG sets, paints etc.
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	43 kg/day
	Others if any:	Not Applicable

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Mode of Disposal of waste:	**Dry waste:**	Handed over to authorize vendor for further handling and disposal.
	Wet waste:	Will be converted to compost using Organic Waste Convertor.
	Hazardous waste:	Handed over to authorized Vendor/Recycler
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as manure for gardening
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	285 m2
	Area for machinery:	3000 Sq. ft.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	146.25 lakhs
	O & M cost:	15 lakhs / Annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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43.Green Belt Development	**Total RG area :**	49167.85 m2
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	2945 Nos.
	List of proposed native trees :	Delonix regia, Bahinia blackiana, Casurina, Cassia fistula, Melia azedarach, Pritchardia passifica, Saraca indica, Tabebuia rosea, Plumeria alba, Albizia saman, Neolamarckia cadamba, Barringtonia asiatica , Pongamia pinnata
	Timeline for completion of plantation :	With compleation 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	Delonix regia	Gulmohar	314	Evergreen tropical, Drought tolerant
2	Bahinia blackiana	Hong Kong Orchid Tree	242	Evergreen flowering medicinal tree, Bark used in dye
3	Casurina	Whistling Pine	134	Evergreen tropical, Drought tolerant
4	Cassia fistula	Amaltas/ Bahava	253	Semi-deciduous tropical tree, Flowering, Drought tolerant, Flowers are attractive to bees and butterflies ,
5	Melia azedarach	Indian Lilac	191	Deciduous tree, Evergreen flowering, Drought tolerant
6	Pritchardia passifica	Fiji Fan Palm	189	Evergreen Palnt
7	Saraca indica	Sita Ashok	171	Evergreen tropical, flowering medicinal tree
8	Tabebuia rosea	Pink Trumpet Tree	256	Evergreen deciduous Flowering, Drought tolerant
9	Plumeria alba	Champa	883	Evergreen flowering
10	Albizia saman	Rain Tree	45	Evergreen deciduous Flowering, Drought tolerant
11	Neolamarckia cadamba	Kadamba	123	Evergreen flowering medicinal tree, Drought tolerant
12	Barringtonia asiatica	Samudraphool	64	Evergreen flowering
13	Pongamia pinnata	Karanj	95	Evergreen flowering
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Torrent Power Company Ltd.
	During Construction Phase: (Demand Load)	18960 KW
	DG set as Power back-up during construction phase	82.5 kVA x 5 Nos.
	During Operation phase (Connected load):	41277 KW
	During Operation phase (Demand load):	18960 KW
	Transformer:	1. Residential = 1000 kVA x 5 Nos. School Building = 630 x 1 Nos., 2. Residential = 990 kVA x 11 Nos. Commercial Building = 1000 x 1 Nos., 3. 1000 kVA x 3 Nos.
	DG set as Power back-up during operation phase:	82.5 kVA x 13 Nos. + 1 for school, 82.5 kVA x 23 Nos. & 83.5 kVA x 7 Nos.
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Percentage of Saving : Phase I: 12. % , Phase II: 11.4 % Phase III: 13.0 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Considered Energy efficient T5 lights and CFLs inside the flat, LED lights for all common areas, Use of VFD and APFC panels with lifts, Use of Water pumps with 90% efficiency and with VFD and APFC panel, Use of MBBR type STP with VFD panel, Use of LED with solar panels for Street lighting & Use of Solar water heaters for one bathroom per flat	Phase I: 12. % , Phase II: 11.4 % Phase III: 13.0 %

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:**	160 Lakhs
	O & M cost:	30 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for Dust Suppression	Dust control	4.0
2	Site Sanitation, Safety & Disinfection	Workers Health	4.0

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3	Environmental Monitoring	Air, Water, Noise, Soil sampling & testing	5.0
4	Health Check up	Routine Health checkup for workers	3.0

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	Waste water treatment	1248	125.0
2	Solid Waste Management	Disposal of Soild waste	146.25	15.0
3	Rain Water Harvesting	RWH infrastructure	14.5	15.0
4	Landscaping	Green belt deveopment	811.0	125.0
5	Irrigation	Landscape irrigation	124.87	8.0
6	Energy saving features	Installation Energy saving featurs	160	30.0
7	Environmental Monitoring	Air, Water, Noise, Soil sampling & testing	Not applicable	06.0

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:	No. of Junctions to the main road: 1

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Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	Total Car Parking Area : 180000 m2
	Area per car:	28.5 m2
	Area per car:	28.5 m2
	Number of 2-Wheelers as approved by competent authority:	1710 Nos.
	Number of 4-Wheelers as approved by competent authority:	6015 Nos.
	Public Transport:	Not applicable
	Width of all Internal roads (m):	12 Mtrs
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Nil in 10 Km area around the project site
	Category as per schedule of EIA Notification sheet	8 a (B1)
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	20-02-2016

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Brief information of the project by SEAC

Minutes of 50th SEAC-1 meeting :

PP submitted CFO NOC dated 20/09/2016. The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that the project is earlier considered in 45th meeting of SEAC II in which ToR was issued. PP submitted EIA report. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 2,52,289 m2 & total construction area proposed in this meeting of the project is 7,38,798.72 m2. PP agreed to submit socio-economic studies for the project. PP also agreed to submit revised solid waste management plan including collection, disposal, treatment etc. 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

During discussion following points emerged:

1. It is observed that there are no sewer lines & no storm water drainage lines constructed up to the project site. Therefore, PP to ensure that no possession shall be given before completion of the sewer lines & storm water drainage line and permission for the connection to the same by the competent authority. Local body to ensure the same. PP to ensure that no possession shall be given before completion & connection to sewer lines, storm water drainage lines & water supply.

2. PP stated that excess treated water will be given to Bhiwandi Municipal Corporation for road washing. PP to submit agreement/back to back commitment for the same from the Bhiwandi Municipal Corporation.

3. PP to submit letter of commitment for drinking water to the project from Municipal Corporation.

4. Further, PP informed that entire treated water should be reused / recycled to ensure the zero discharge. PP to submit details accordingly. PP to submit detailed water budget indicating fool proof mechanism achieving zero discharge including treatment mechanism. PP to ensure that no treated or untreated sewage water should be released in storm water drainage lines or in nearby water bodies.

5. PP to ensure that BOD of the treated water should be 5 mg/lit.

6. Proper design of storm water drainage considering entire project area should be done to ensure that it should not overload outside storm water drain & submit along with storm water drainage calculations. Storm water drainage should be designed as per guidelines given in SP:IRC-50.

7. PP to submit contour map with all services and building plans to evaluate contour cutting and environmental issues. PP to submit contour plan by superimposing layout plan & storm water drainage lines.

8. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

1. PP to submit required documents. Deferred until then

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for New Residential Construction Project

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Kalpataru Rejuve
2.Type of institution	Private
3.Name of Project Proponent	Mr. Jayant Oswal
4.Name of Consultant	M/s. Saitech Research & Development Organization
5.Type of project	Housing project with Residential & Commercial (In Amenity) development
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No expansion
8.Location of the project	Gat No. 26(P), 27/2, 82, 89, 91(P) & 92
9.Taluka	Maval
10.Village	Dongargaon
11.Area of the project	Pune Metropolitan Regional Development Authority (PMRDA)
12.IOD/IOA/Concession/Plan Approval Number	Potential Sanction obtained vide No. PMA/NA/SR/168110 dated 26/11/2010
	IOD/IOA/Concession/Plan Approval Number: Potential Sanction obtained vide No. PMA/NA/SR/168110 dated 26/11/2010
	Approved Built-up Area: 56605
13.Note on the initiated work (If applicable)	No work has been initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	1,79,320.00 Sqm
16.Deductions	16,080.82 Sqm
17.Net Plot area	1,63,239.18 Sqm
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 39,849.98 Sqm
	b) Non FSI area (sq. m.): 29,038.96 Sqm
	c) Total BUA area (sq. m.): 68,888.94 Sqm
19.Total ground coverage (m2)	22,972.42 Sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12.81 % of total Plot Area
21.Estimated cost of the project	2500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential A Type Villas 128 No.	P + Stilt+ 1	10.10 m.
2	Residential B Type Villas 29 No.	P + Stilt+ 1	10.10 m.
3	Amenity Space 1: C Type (school) - 1 No.	Ground + 1	8.85 m.
4	Amenity Space 2: F Type (Commercial)- 1 No.	Ground + 1	10.05 m.
5	D Type (Club House 1- in Open Space 2)- 1 No.	Ground	5.10 m

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6	E Type (Club House 2- in Open Space 3)- 1 No.	Ground	5.25 m

23.Number of tenants and shops	Residential - 157 Nos. Shops-5 Nos.
24.Number of expected residents / users	Residential Users - 785 Nos. Commercial Users - 300 Nos. School - 1000 Nos. Total Population : 2085 Nos.
25.Tenant density per hectare	9 Tenement / 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)	Nearest Fire Station at Lonavala & width of the road from the nearest fire station to the proposed building - 40 m & 30 m wide R.P. road abutting to site
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9 m.
29.Existing structure (s) if any	No existing structure
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**	Lonavla Municipal Council
	Fresh water (CMD):	110.65
	Recycled water - Flushing (CMD):	67.83
	Recycled water - Gardening (CMD):	88
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	276.48
	Fire fighting - Underground water tank(CMD):	Not Applicable
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	0

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Wet season:	**Source of water**	Lonavla Municipal Council
	Fresh water (CMD):	110.65
	Recycled water - Flushing (CMD):	67.83
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	10
	Total Water Requirement (CMD) :	188.48
	Fire fighting - Underground water tank(CMD):	Not Applicable
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	87.71
Details of Swimming pool (If any)	• Dimension of Swimming Pool: 10.54m X 7.24m X 1.2m • Total water Requirement in KL: 94.00 m 3/day• Water requirement for make up in KLD: 10.00 m 3/day	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	276.48	276.48	0	16.95	16.95	0	155.53	155.53

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 20.20 m. to 26.00 m. BGL. (23.10 BGL Average), Rainy Season – 8.20 m. to 15.60 BGL. (11.90 BGL Average), Winter Season – 14.20 m. to 20.80 m. BGL. (17.50 BGL Average)
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	20 Nos., 1 No. of soak pit and Roof top rain water collection tank of 3000 lit per tenement
	Size of recharge pits :	a) 20 No. of 2.0 m. X 2.0 m. X 2.0 m. Depth with 1.2 m. X 1.0 m. X 1.0 m. De-siltation pit & 60 m. deep 6" dia. bore well, b) 1 No. of 3.0 m. X 3.0 m. X 3.0 m. Deep soak pit. c) Roof top rain water collection tank of 3000 lit per tenement
	Budgetary allocation (Capital cost) :	80 Lacs
	Budgetary allocation (O & M cost) :	2.50 Lacs/annum
	Details of UGT tanks if any :	Residential & commercial: • Domestic UG tank Capacity: 178.00 m3 • Flushing UG tank Capacity: 131.00 m3 • Fire UG tank Capacity: Not Applicable School: • Domestic UG tank Capacity :35.00 m3 • Flushing UG tank Capacity: 25.00 m3 • Fire UG tank Capacity : Not Applicable
35.Storm water drainage	**Natural water drainage pattern:**	Towards South to North
	Quantity of storm water:	104.02 m3/Sec
	Size of SWD:	900 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	1. For Residential and Commercial: 115.03 KLD 2. For School: 40.50 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1. For Residential and Commercial: 150 KLD 2. For School: 50 KLD
	Location & area of the STP:	1. For Residential and Commercial: Near transformer I, 63 Sq. m 2. For School: Near school, 42 Sq. m
	Budgetary allocation (Capital cost):	62.0 Lacs for STP and 8 Lacs for Pumping of treated water
	Budgetary allocation (O & M cost):	9.25 Lacs/annum for STP and 0.50 Lacs/annum for Pumping of treated water

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	50 Kg/day
	Disposal of the construction waste debris:	Use for Landscaping and levelling
Waste generation in the operation Phase:	**Dry waste:**	1. For Residential and Commercial: 202.00 Kg/day 2. For School: 150.00 Kg/day
	Wet waste:	1. For Residential and Commercial: 265.50 Kg/day 2. For School: 100.00 Kg/day
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	13.99 Kg/day
	Others if any:	No

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Mode of Disposal of waste:	**Dry waste:**	Handed over to Dongargaon Grampanchayat
	Wet waste:	Treated through Organic Waste Convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as Manure within the premices
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	1. For Residential and Commercial: Near STP 1 2. For School: Near School Building
	Area for the storage of waste & other material:	1. For Residential and Commercial: 30 Sq. m. 2. For School: 25 Sq. m.
	Area for machinery:	1. For Residential and Commercial: 20 Sq. m. 2. For School: 10 Sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	19 Lacs
	O & M cost:	4.93 Lacs/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	1. For 125 KVA DG set For 100 % Load –22.7 Liters/Hr - 9 Hrs. Working.	HSD	1	6.23	125 mm	300 Degree Celsius
2	2. For 40KVA DG set For 100 % Load – 7.2 Liters/hr. - 9 Hrs. Working.	HSD	2	5.05	125 mm	300 Degree Celsius

40.Details of Fuel to be used

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Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not Applicable	For 125 KVA DG set • For 100 % Load –22.7 Liters/Hr - 9 Hrs. Working.	22.7 Liters/Hr
2	HSD	Not Applicable	For 40 KVA DG set • For 100 % Load – 7.2 Liters/hr. - 9 Hrs. Working.	7.2 Liters/hr.
41.Source of Fuel		Nearby pump		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	16323.92 Sqm
	No of trees to be cut :	0
	Number of trees to be planted :	2041
	List of proposed native trees :	2041
	Timeline for completion of plantation :	Till the completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Anthocephalus cadamba	Kadamba	62	Medicinal value. To control soil erosion, Birds, squirrels, monkey eat fruits
2	Azadirachta indica	Neem	51	Medicinal value. To control soil erosion. To improve soil erosion
3	Bauhinia purpurea	Apta / Kanchanraj	58	Every part of the plant is medicinal, Drought tolerant species.
4	Cassia fistula	Bahava	51	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
5	Putranjivarox burgii	Putranjiva	54	Evergreen, Ornamental, medicinal
6	Butea monosperma	Butea monosperma	55	Medicinal value, Bird attracting species ,To control soil erosion.
7	Morus alba	Mulberry	63	Fruit bearing, Ornamental, Timber
8	Emblica officinalis	Amla	59	Medicinal value, Bird attracting species
9	Tabebuia argentea	Trumpet tree	72	Very showy, trumpet shaped lavender flowers
10	Peltophorum pterocarpum	Copper pod	47	Yellow flowers, Squirrel attracting tree
11	Pongamia pinnata	Karanj	51	Medicinal value, Drought tolerant species. To control soil erosion. Hardy plant.

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12	Spathodea campanulata	African Tulip	58	Ornamental tree, showy reddish-orange flowers
13	Lagerstroemia speciosa	Crape myrtle	51	Medium deciduous tree. Flowers attract many birds
14	Thespesiapopulenea	Bhendi	51	Flowering plant, Timber
15	Millingtonia hortensis	Indian cork tree	50	Evergreen, bird attracting tree
16	Samaneasaman	Rain tree	38	Evergreen, Ornamental, Timber
17	Terminalia ivorensis	Terminalia	49	Evergreen tree
18	Cassia spectabilis	Golden cassia	74	Medium size tree with bright golden flower, butterfly host plant.
19	Erythrina indica	Indian coral tree	52	Evergreen, Timber, Specimen Tree
20	Saraca indica	Sita Ashoka	54	Medicinal value, Religious plant.
21	Mimusopse lengii	Maulsiri	53	Medium-sized evergreen tree
22	Albizia lebbeck	Shirish	51	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species
23	Melia azaderach	Indian lilac	50	Evergreen, Ornamental, medicinal
24	Dalbergia sisoo	Shisham	22	Medicinal value, Bird attracting species
25	Madhuca indica	Mahua	60	Showy flowers
26	Cassia javanica	Pink Shower	53	Perennial, Native, Shrub
27	Nycanthes arboritis	Parijatak	77	Fragrant flowers, Medicinal value
28	Artocarpus heterophyllus	Kathal	61	Evergreen, food, fruit, timber
29	Aegle marmelos	Bel	25	Edible fruit. Bird attracting species
30	Magnifera indica	Mango	107	Edible fruit. Bird attracting species
31	Callistemon lanceolata	Bottlebrush	58	Evergreen, Ornamental, medicinal
32	Swietenia mahogany	Mahogany	28	Evergreen tropical tree
33	Grewia asiatica	Phalsa	29	Evergreen, Ornamental tree
34	Murraya koenigii	Kadipatta	49	Medicinal value, Edible leaves
35	Psidium guava	Guava	29	Medium sized fruit bearing tree, medicinal plant-good source of calcium and vitamin C.
36	Shorea robusta	Sal	14	Evergreen, Ornamental, medicinal
37	Syzygium cumini	Jamun	50	Medicinal value, Edible fruit.
38	Jacaranda mimosifolia	Neelmohar	55	Evergreen, Ornamental
39	Terminalia arjuna	Arjun	27	Large evergreen tree
40	Michelia champaca	Son chafa	43	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
41	Total No. of Trees	-	2041	-
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	40 KVA- 1 No
	During Operation phase (Connected load):	1881 KW (2090 KVA)
	During Operation phase (Demand load):	1672 KVA
	Transformer:	630 KVA - 4 Nos.
	DG set as Power back-up during operation phase:	1) 125 KVA – 1 No. For Residential Common Load. 2) 40 KVA – 2 Nos. For Commercial Building and school.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Yes

48.Energy saving by non-conventional method:

- Solar Water Heating Systems
- Solar lights will be provided for common amenities like Street lighting & Garden lighting.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Annual Savings with Energy Equipment	41.17%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air Pollution by DG Set	Not Applicable	Acoustic enclosure for DG set
Sewage Water	Not Applicable	STP
Wet Solid waste	Not Applicable	Organic Waste Converter

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	87.2 Lacs
	O & M cost:	2.3 Lacs/Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water For Dust Suppression	0.45
2	Air Environment	Air & Noise monitoring	0.42

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3	Water Environment	Tanker water for construction	2.10
4	Water Environment	Water monitoring	0.6
5	Land Environment	Site Sanitation	8.0
6	Biological Environment	Gardening	4.5
7	Biological Environment	Transplantation	0.15
8	Biological Environment	Top soil preservation	0.25
9	Socio- Economic Environment	Disinfection- Pest Control	2.0
10	Socio- Economic Environment	First Aid Facilities	1.25
11	Socio- Economic Environment	Health Check Up	0.70
12	Socio- Economic Environment	Creche for children	5.0
13	Socio- Economic Environment	Personal protective equipment	1.5
14	TOTAL	-	26.92

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant (STP)	Waste water treatment	62.00	9.25
2	Pumping cost	Pumping of excess treated water	8.00	0.50
3	Rain Water Harvesting	20 No. of pits, 1 No soak pit and c) Roof top rain water collection tank of 3000 lit per tenement	80.00	2.50

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Traffic generated from this project will confluent on existing 24m wide road and proposed 12m wide DP Road

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Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	7267.60 Sqm
	Area per car:	30 Sqm
	Area per car:	30 Sqm
	Number of 2-Wheelers as approved by competent authority:	354
	Number of 4-Wheelers as approved by competent authority:	197
	Public Transport:	Nearest Bus Stop: Dongargaon
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

SEIAA AGENDA-0000000005

Minutes of 106th SEIAA meeting :

SEAC-III considered the project in its 51st meeting under screening category 8(a), B2 as per EIA Notification, 2006 & recommended it to SEIAA. The project proposal was discussed on the basis of consolidated statement, compliance of issues raised by SEAC–III submitted by PP, layout plan, floor plan, location of environmental infrastructures like STP, RWH, SWM, Disaster Management plan, parking plan etc. It was noted that the SEAC-III had recommended the proposal to SEIAA subject to compliance of the points raised by SEAC as below:-

1. PP informed that they have obtained full potential sanction.

2. PP to explore possibility to provide solar PV cell panels to all the roofs of the bungalows to make them energy self-sufficient.

3. PP is advised to achieve parameters and standards of treated sewage and monitor the same as per Environment (Protection) Rule, 1986; PP to submit undertaking for the same.

DECISION OF SEAC

In 106th meeting of SEIAA, PP was directed to comply with the following issues:- i) PP informed that they have obtained NA order vide No. 168/10 dated 26.11.2010; although this project falls in the jurisdiction of PMRDA for sanction of the plan. PP shall obtain the plan sanction from the Competent Authorityand to ensure nine meter turing radius on the internal road for easy movement of fire tender.

ii) It was noted that the existing population of the village Dongargaon is about 6000 nos and the proposed project will add about 2085 nos. of population. PP submitted a letter obtained from Lonawala Municipal Corporation vide no.7737/2016 dated- 06.10.2016 which specifies that the water supply to Dongargaon Village Panchyat will be made by Lonawala Municipal Corporation from their excess storage.

iii) The STP capacity shall be increased to 276.48 CMD.

iv) BOD of treated water shall be less than 5 mg/l.

v) There is no existing sewer connectivity in the area PP shall ensure sewer connectivity & ensure proper disposal of treated water as per environmental norms.

vi) PP shall provide details regarding mode of disposal of dry waste, wet waste and E-waste. After detailed deliberation, SEIAA decided to defer consideration of the case till compliance of the issues raised herein above are received along with NA order are vaild from the PP for consideration of the project.

Specific Conditions by SEAC:

SEIAA DECISION

Approved.

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

SEIAA-AGENDA-0000000005

SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for application of environmental clearance for "HBS MARINEVIEW "- Residential Redevelopment Project Of Lohana Niwas And Tapidas Building

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	"HBS MARINEVIEW "- Residential Redevelopment Project Of Lohana Niwas And Tapidas Building
2.Type of institution	Private
3.Name of Project Proponent	M/s HBS Sea View PVT.LTD.
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	Residential Redevelopment Project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot Bearing CS NO. 479 &1/479 & 3/482 Of Bhuleshear Division (C) Ward, Mumbai
9.Taluka	mumbai
10.Village	Bhuleshear
11.Area of the project	MCGM (Municipal Corporation of Greater Mumbai)
12.IOD/IOA/Concession/Plan Approval Number	concession document
	IOD/IOA/Concession/Plan Approval Number: EB/7227/C/A
	Approved Built-up Area: 14757
13.Note on the initiated work (If applicable)	Construction not initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD from
15.Total Plot Area (sq. m.)	3506.80
16.Deductions	0.0
17.Net Plot area	3506.80
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 14757.13
	b) Non FSI area (sq. m.): 45272.1
	c) Total BUA area (sq. m.): 60,029.28
19.Total ground coverage (m2)	2323.25
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	66.25 %
21.Estimated cost of the project	1820000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Bldg. No. 1 (Rehab Wing)	3Basement (2Parking &1 services)+ Gr Flr. + 8 Parking Floors + 1 Amenity Floor+ 39 Residential Floors (including 6 Refuge Floors) 2 Fire Check Floors.	162.00 m

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2	Bldg. No. 2 (Sale Wing)	3 Basement (2Parking &1 services) + Gr. Flr. + 8 Parking Floors + 1 Amenity Floor + 19 Residential Floors (including 3 Refuge Floors) 1 Fire Check Floor.	108.02 m

23.Number of tenants and shops	Rehab = 275 no's Sale= 73 no's shops = 2 no's
24.Number of expected residents / users	Rehab = 1375 no's Sale= 365 no's shops = 6 no's
25.Tenant density per hectare	992 tenants/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m wide Gazdar road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	9 no of old dilapidated and cessed buildings which is to be demolished after receiving appropriate approvals
30.Details of the demolition with disposal (If applicable)	Shall be managed as per debris management plan

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

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Dry season:	**Source of water**	MCGM/treated water from STP
	Fresh water (CMD):	REHAB- 124 KLD, SALE-33 KLD
	Recycled water - Flushing (CMD):	REHAB- 62 KLD, SALE-16 KLD
	Recycled water - Gardening (CMD):	REHAB- 2 KLD, SALE-3 KLD
	Swimming pool make up (Cum):	.
	Total Water Requirement (CMD) :	REHAB- 188 KLD, SALE-52 KLD
	Fire fighting - Underground water tank(CMD):	300 cum
	Fire fighting - Overhead water tank(CMD):	100 cum
	Excess treated water	REHAB- 77 KLD, SALE-16 KLD
Wet season:	**Source of water**	MCGM/treated water from STP/RWH
	Fresh water (CMD):	REHAB- 124 KLD, SALE-33 KLD
	Recycled water - Flushing (CMD):	REHAB- 62 KLD, SALE-16 KLD
	Recycled water - Gardening (CMD):	0 KLD
	Swimming pool make up (Cum):	.
	Total Water Requirement (CMD) :	REHAB- 186 KLD, SALE-49 KLD
	Fire fighting - Underground water tank(CMD):	300 cum
	Fire fighting - Overhead water tank(CMD):	100 cum
	Excess treated water	REHAB- 79 KLD, SALE-46 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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.5 m – 3.00 m bgl
	Size and no of RWH tank(s) and Quantity:	Rehab-35 Kl Sale-60 KL
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	Rs 20 Lakhs
	Budgetary allocation (O & M cost) :	Rs 1.0Lakhs /Annum
	Details of UGT tanks if any :	Domestic Water Tank 217 KL Flushing Water Tank 55 KL Fire Water Tank 600 KL Rain Water Harvesting Tank 95 KL Location of tank Basement 3/Ground for RWH
35.Storm water drainage	**Natural water drainage pattern:**	NE to SW
	Quantity of storm water:	0.062 cum/sec
	Size of SWD:	0.4 m
Sewage and Waste water	**Sewage generation in KLD:**	Rehab- 157 KLD Sale- 39 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	Rehab- 170 KLD Sale- 50 KLD
	Location & area of the STP:	Basement & ground
	Budgetary allocation (Capital cost):	Rs 85 Lakhs
	Budgetary allocation (O & M cost):	Rs 12.7 lakhs /annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	- Top soil to be preserved for landscaping. - 21287 cum excavated material which will be generated in the process of reformation of levels, pile foundation etc which shall be sent for disposal to authorized site. - Scrap material and other recyclable material like empty cement bags and empty paint cans to be sold to recyclers. - 1250 sqm of broken tiles generated to be used as china mosaic for terrace
	Disposal of the construction waste debris:	- Top soil to be preserved for landscaping. - 21287 cum excavated material which will be generated in the process of reformation of levels, pile foundation etc which shall be sent for disposal to authorized site. - Scrap material and other recyclable material like empty cement bags and empty paint cans to be sold to recyclers. - 1250 sqm of broken tiles generated to be used as china mosaic for terrace
Waste generation in the operation Phase:	**Dry waste:**	Rehab - 276 Kg/day Sale - 73 Kg/day
	Wet waste:	Rehab - 413 Kg/day Sale- 110 Kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Rehab - 5 Kg/day Sale- 1 Kg/day
	Others if any:	Not Applicable

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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:	Not Applicable
Area requirement:	**Location(s):**	ground
	Area for the storage of waste & other material:	Rehab - 32.8 sqm Sale- 16.4 sqm
	Area for machinery:	rehab -2.594 sqm sale-1.844 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 16 Lakhs
	O & M cost:	Rs 3.2 lakhs /annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	RG area on Ground -280.56Sqm (8%) RG area on Podium-235.54 Sqm (6.7%) Paved RG – 471.71 Sqm. (13.45%) Total RG Area-987.81 Sqm (28.16%)
	No of trees to be cut :	Applied for tree NOC – 01.07.2016
	Number of trees to be planted :	15 nos
	List of proposed native trees :	Coconut ,Gulmohar ,Neem , Arjun tree , shirish
	Timeline for completion of plantation :	by the end of coonstruction 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	Cocos nucifera	Coconut	4	fruit bearing tree
2	Delonix regia	Gulmohar	2	shadow tree
3	Azadiracta indica	Neem	3	medicinal tree
4	Terminalia arjuna	Arjun tree	4	ornamental tree
5	Albizia lebbeck	shirish	2	medicinal tree
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Gloriosa suparba	2m	.
2	Adhatoda vasica	2m	.
3	Tecona stans	2m	.
4	Bougain villee sps	2m	.
5	Passsiflora edulis	m2	.

47.Energy

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Power requirement:	**Source of power supply :**	TaTa/Reliance
	During Construction Phase: (Demand Load)	80 kW
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	Rehab-2139 kw , Sale - 3089 kw
	During Operation phase (Demand load):	Rehab-3089 kw , Sale - 1311kw
	Transformer:	..
	DG set as Power back-up during operation phase:	Rehab -1x630 KVA , Sale -1x630 KVA, 1x250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

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49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Rehab - SAVING IN PERCENTAGE , sale -SAVING IN PERCENTAGE	rehab -24 %, sale- 31%
2	Rehab- TOTAL ANNUAL SAVING DUE TO SOLAR, sale- TOTAL ANNUAL SAVING DUE TO SOLAR	rehab -10.79 %, sale- 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. 180 lakhs
	O & M cost:	Rs. 36lakhs

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	6
2	Noise Environment	Noise Baricades and Green Belt Developments	4

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3	Water Environment	Modular STP , Drainage with sedimentation tanks	5
4	Good Health Practices	Site Sanitation & Health Care	4
5	Environment Monitoring	Air,water,noise soil monitoring during construction phase	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	solid waste mangement	OWC	16	3.2
2	waste water	STP	85	12.7
3	electrical savings	Energy	180	36
4	RWH system	RWH system	20	1
5	RG area	Landscaping	14	2.8

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	12 m wide Gazdar road.

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Parking details:	**Number and area of basement:**	3 no (area) 7,096.02 sq.m.
	Number and area of podia:	8 nos (area) 10436.61 sq.m.
	Total Parking area:	.
	Area per car:	Podium – 46 sqm • Basement- 38 sqm
	Area per car:	Podium – 46 sqm • Basement- 38 sqm
	Number of 2-Wheelers as approved by competent authority:	.
	Number of 4-Wheelers as approved by competent authority:	236 nos
	Public Transport:	not applicable
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	Letter received from MCZMA dated 17.04.2015
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	-
	Category as per schedule of EIA Notification sheet	8 a , B2
	Court cases pending if any	Not applicable
	Other Relevant Informations	CFO NOC Received from MCGM dated 30.03.2013HRC NOC Project cleared for HRC. NOC is awaiting Consent for the water Applied on 1.07.2016 Consent for the drainage Applied on 1.07.2016 Precertification for Green Building from Indian Green Building Council Received dated March 2016
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	18-05-2016

Brief information of the project by SEAC

SEIAA-AGENDA-0000000005

Minutes of 51st SEAC-2 meeting :

Representative of PP, Ms. Radhika Patil & Architect Mr. Umesh Pawar were present during the meeting along with environmental consultant M/s EAEPL.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that the project is earlier considered in 48th meeting of SEAC II. All issues related to environment, including air,water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 3506.80 m2 & total construction area of the project is 60,029.28 m2. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1,1A, synopsis of compliances, presentation & plans submitted are taken on the record.

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit corrected copy of the letter indicating CRZ status of the plot.

2. Since, there is no adequate width available for fire tender, PP to ensure that no compound wall should be put up towards the north-east side of the project to provide adequate access for the fire tender movement.

3. PP to ensure that BOD of the treated waste water is 5mg/lit.

4. Details of the proposed magic bus project as CSR activity should be proposed in Mumbai area also.

5. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

1. The basement will be below the ground water level. PP to submit geo-hydrology study showing feasibility.

2. Other details as required to be submitted

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Proposed Residential building on plot bearing Survey No. 25, Hissa No. 7, Village Ambivali, Taluka Khalapur, District Raigad

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Pyramid 1 – Residential Building
2.Type of institution	Private
3.Name of Project Proponent	Mr. Kishan Kumar Kedia
4.Name of Consultant	M/S Aqura Enviro Projects Pvt Ltd
5.Type of project	Residential Building Projects
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey No. 25, Hissa No. 7, Village Ambivali, Taluka Khalapur, District Raigad, Maharashtra State.
9.Taluka	Khalapur
10.Village	Ambivali
11.Area of the project	Raigad District Regional Planning Board, Alibaug.
12.IOD/IOA/Concession/Plan Approval Number	Approval Plan from Town Planning, Alibaug. Letter No: 25/7/1137 dated 11.05.2015 & Sanctioned by Collector Raigad District: Vide Letter No. 26/2015 dated 10.06.2015
	IOD/IOA/Concession/Plan Approval Number: Approval Plan from Town Planning, Alibaug. Letter No: 25/7/1137 dated 11.05.2015 & Sanctioned by Collector Raigad District: Vide Letter No. 26/2015 dated 10.06.2015
	Approved Built-up Area: 52824.49
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Approval Plan from Town Planning, Alibaug. Letter No: 25/7/1137 dated 11.05.2015
15.Total Plot Area (sq. m.)	31200 Sq.M.
16.Deductions	4680 Sq. M. = RG:-3120 Sq. M. & Amenity Open Space: 1560 Sq. M.
17.Net Plot area	26520 Sq. M.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 34678.80
	b) Non FSI area (sq. m.): 18145.69
	c) Total BUA area (sq. m.): 52824.49
19.Total ground coverage (m2)	9430.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	30
21.Estimated cost of the project	1258600000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A, B, D, E, G & H	- Ground + 1st Podium (fitness Centre) + 2ND to 20th Upper Residential Floor.	64.35
2	Wing C & F	Ground + 1st Podium (fitness Centre) + 2ND to 17th Upper	55.35

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23.Number of tenants and shops	626
24.Number of expected residents / users	Population :- 3443 (Residents: 3130 & Floating Population: 313 Nos)
25.Tenant density per hectare	Not Applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	6 m & 15m internal roads
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	No - Land is Vacant
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**	Government of Maharashtra department dated 04.03.2014. Source of water will be Patalganga River
	Fresh water (CMD):	286
	Recycled water - Flushing (CMD):	167
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	453
	Fire fighting - Underground water tank(CMD):	200000 For Each Wing
	Fire fighting - Overhead water tank(CMD):	20000 For Each Wing
	Excess treated water	146 CMD

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Wet season:	**Source of water**	Government of Maharashtra department dated 04.03.2014. Source of water will be Patalganga River
	Fresh water (CMD):	246
	Recycled water - Flushing (CMD):	167
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	413
	Fire fighting - Underground water tank(CMD):	200000 For Each Wing
	Fire fighting - Overhead water tank(CMD):	20000 For Each Wing
	Excess treated water	156 CMD
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1 to 2m
	Size and no of RWH tank(s) and Quantity:	7.5m X 5m & 1 Nos Quantity : 40 CUM
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	3 nos
	Size of recharge pits :	5m X 5m
	Budgetary allocation (Capital cost) :	125 Lakhs
	Budgetary allocation (O & M cost) :	9.38 Lakhs
	Details of UGT tanks if any :	1) Domestic Tank :- For Wing A,B,D,E,G & H:- 39.76 KLD & For Wing C & F:- 52.27 KLD 2) Flushing Tank :- For Wing A,B,D,E,G & H:- 21.69 KLD & For Wing C & F:- 28.08 KLD 3) Fire Fighting Tank :- For Wing A,B,D,E,G & H:- 200.00 KLD & For Wing C & F:- 200.00 KLD

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35.Storm water drainage	**Natural water drainage pattern:**	Natural Slope
	Quantity of storm water:	0.33 cum/sec
	Size of SWD:	1200m Wide
Sewage and Waste water	**Sewage generation in KLD:**	370 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 Nos 370 KLD
	Location & area of the STP:	Ground Floor & Area 300 Sq.M.
	Budgetary allocation (Capital cost):	52.50 Lakhs
	Budgetary allocation (O & M cost):	5.00 Lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	13899 cum
	Disposal of the construction waste debris:	Disposal of construction waste will be as per "Construction and Demolition and De-silting Waste" (Management and Disposal) Rules 2006 at the designated site as directed by the Local Body.
Waste generation in the operation Phase:	**Dry waste:**	576 Kg/day
	Wet waste:	863 Kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	50 Kg/day
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Dry waste would be further segregated into recyclable and non-recyclable. Recyclable will be handed over to vendors and non recyclable will be disposed off at Local Body landfill sites.
	Wet waste:	Wet Garbage will be treated in Mechanical Composting Unit 'Organic Waste Convertor' (OWC) and the compost generated would be used as manure for gardening purpose and excess would be disposed off to landfill site of Local Body.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	treated in Mechanical Composting Unit 'Organic Waste Convertor' (OWC)
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Ground Floor
	Area for the storage of waste & other material:	45 Sq. M.
	Area for machinery:	30 Sq. M.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 Lakhs
	O & M cost:	7 Lakhs

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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 :	6728 Sq. M. (3120 Sq. M. on Ground & 3608 Sq. M on Podium)
No of trees to be cut :	0
Number of trees to be planted :	156 Nos
List of proposed native trees :	Kunti ,Shivan, Fish tail ,Palm ,Kate sawar ,Palash / Flame of the forest ,Pangara, Ashoka, Palm & Bakul
Timeline for completion of plantation :	After 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	Kunti	Murraya paniculata	20	Long Trees
2	Shivan	Gmelina arborea	20	Long Trees

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3	Fish tail Palm	Caryota urens	20	Short Trees
4	Kate sawar	Bombax ceiba	20	Short Trees
5	Palash / Flame of the forest	Butea monosperma	20	Long Trees
6	Pangara	Erythrina indica	20	Short Trees
7	Ashoka	Saraca indica	16	Long Trees
8	Palm	Borassus flabellifer	10	Long Trees
9	Bakul	Mimusops elengi	10	Short Trees
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL (Maharashtra State Electricity Distribution Company Limited)
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	13365 KW
	During Operation phase (Demand load):	3247 KW
	Transformer:	2 nos 1600 KVA
	DG set as Power back-up during operation phase:	1 Nos 750 KVA
	Fuel used:	LSD (LDO)
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

External lights with stand alone solar panel
Using T5 Tube Light for Common Area Lighting
Using Lift motor with VFD Panel
50% Hot Water on Solar

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	External Area Lighting Load	162 KWh (100%)
2	Common Area Lighting Load	557.57 KWh (44%)
3	Refuge Area Lighting Load	43.40 KWh (80%)
4	Lift motor with VFD	26 KWh (10%)

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5	Geyser with solar heater	470 KWh (50%)

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	142 Lakhs: - 106 Lakhs for Solar Pannel (Solar Panels for water heating system) & 36 Lakhs (Solar Panels for common areas and street lightning)
	O & M cost:	12.40 Lakhs:- 10.6 Lakhs (Solar Panels for water heating system) &1.80 Lakhs (Solar Panels for common areas and street lightning)

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Drinking	Water	1.7
2	Sanitation	Clean	3.5
3	Health Checkup	Weekly Checkup	3.5
4	Water for Dust Suppression	dust	1

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Waste Water Treatment	1 STPs Of Total Capacity 370 KL	52.50	5
2	Water Conservation (Rain Water Harvesting)	3 nos of RWH Percolation Pits Provided.	125	9.38
3	3 nos of RWH Percolation Pits Provided.	Cost Per Treatment of Biodegradable Garbage in OWC (7 Times)	15	7
4	Air Environment	Tree Plantation and landscaping	109.20	10
5	Energy Conservation	Solar Panels For Water heating	106	10.6
6	Energy Conservation	Solar lights for common & landscape lighting	36	1.8
7	Environment Monitoring	Ambient Air Quality , Noise Level Exhaust from DG sets, water and Waste water	No setup cost outside MOEF approved Laboratory for monitoring	5
8	Other maintenance Cost	Sewerage Network	15	0.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	1 Nos Having Area 9430 Sq.m
	Total Parking area:	17500 Sq. M.
	Area per car:	25 Sq. M.
	Area per car:	25 Sq. M.
	Number of 2-Wheelers as approved by competent authority:	Required:- 682 Nos & Provided :- 777 Nos
	Number of 4-Wheelers as approved by competent authority:	Required :- 139 Nos & Provided :- 440 Nos
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6m & 15m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Karnala Bird Sanctuary : Aprox 8.5 Km
	Category as per schedule of EIA Notification sheet	8 (b) - Costruction project having Construction area less than 1,50,000 Sq. M.
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable

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	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	06-01-2016

Brief information of the project by SEAC

Minutes of 49th SEAC-2 meeting :

Representative of PP, Sanjay Kedia & Architect Dipesh Chandra were present during the meeting along with environmental consultant M/s Aqura. PP informed that they have received approved plans from Town Planning Alibaug dated 11/05/2015.

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 PP stated that total plot area is 31,200 m2 & total construction area of the project is 52,824.49 m2. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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During discussion following points emerged: 1. It is observed that there is no sewer line & no storm water drainage lines constructed up to the project site. Therefore, PP to ensure that no possession shall be given before completion of the sewer lines & storm water drainage line and permission for the connection to the same by the competent authority. Local body to ensure the same.

2. PP informed that they will enter into agreement with Ruchi Soya and Bhushan Steel for usage of treated waste water. PP to submit commitment and copy of agreement for the same detailing water requirement.

3. Further, PP informed that entire treated water should be reused / recycled to ensure the zero discharge. PP to submit details accordingly. PP to submit detailed water budget indicating fool proof mechanism achieving zero discharge.

4. PP to submit letter of commitment for drinking water to the project from Municipal Corporation.

5. PP to ensure that BOD of the treated water should be 5 mg/lit.

6. Storm water drains should be properly planned to cover drainage from abutting large hilly regions. PP to revise storm water drainage plan considering total load from hilly catchment.

7. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Consruction Project by M/s Lebberty Promoters & Builders

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Kolosus Green City
2.Type of institution	Private
3.Name of Project Proponent	Mr. Jatin B Patel
4.Name of Consultant	M/s Saitech Research & Development Organization
5.Type of project	Residential & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Gat No.77/78, Near River Residency, Dehu-Alandi Road, Chikhali, Pune
9.Taluka	Haveli
10.Village	Chikhali
11.Area of the project	PCMC
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: Plan No- BP/Chikhali/2/2016
	Approved Built-up Area: 48504.43
13.Note on the initiated work (If applicable)	15659.60
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	17625.00
16.Deductions	4554.72
17.Net Plot area	13070.27
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20259.25
	b) Non FSI area (sq. m.): 29534.13
	c) Total BUA area (sq. m.): 49793.38
19.Total ground coverage (m2)	3328.17
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.88 % of the Total Plot Area and 25.46 % of the Net Plot Area
21.Estimated cost of the project	1000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	P+12	38.35
2	Wing B	P+12	38.35
3	Wing C	P+12	38.35
4	Wing D	P+12	38.35
5	Wing E	P+11	35.40
6	Wing F	P+12	38.35
7	Wing G	P+12	38.35

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23.Number of tenants and shops	Total Tenements – 425 Nos. No. of Shops- 4 nos.
24.Number of expected residents / users	Residential Users: 2125 Nos. and Commercial Users : 27 Nos.
25.Tenant density per hectare	241.13
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 M wide DP Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	310.50
	Recycled water - Flushing (CMD):	96.31
	Recycled water - Gardening (CMD):	17.40
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	196.79
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	150
	Excess treated water	150.08

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Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	293.09
	Recycled water - Flushing (CMD):	96.31
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	196.79
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	150
	Excess treated water	167.48
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3m to 5m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	7 Nos
	Size of recharge pits :	1.5M x 1.5M x 1.5M
	Budgetary allocation (Capital cost) :	3.50 Lakh
	Budgetary allocation (O & M cost) :	1.0 Lakh/Year
	Details of UGT tanks if any :	Domestic UG tank Capacity : 2,96,000 Lit Flushing UG tank Capacity : 1,14,000 Lit Fire UG tank Capacity : 3,00,000 Lit

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35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	456.84 m3/hr
	Size of SWD:	600 mm dia pipe
Sewage and Waste water	**Sewage generation in KLD:**	263.78 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No of 300 m3/day
	Location & area of the STP:	122.4 m2
	Budgetary allocation (Capital cost):	85.00 Lakh
	Budgetary allocation (O & M cost):	17.32 Lakh / Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 kg/day
	Disposal of the construction waste debris:	Use of Leveling
Waste generation in the operation Phase:	**Dry waste:**	429 kg/day
	Wet waste:	640.5kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	45 Kg/day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Authorized vendor
	Wet waste:	Organic waste convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC
	Others if any:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	67.5 m2
	Area for machinery:	15 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	13.75 Lakh
	O & M cost:	4.06 Lakh / Year

37.Effluent Charecterestics

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

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1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set of 125 KVA	HSD	S-1	4.11 m	to be provided	to be provided
2	DG set of 125 KVA	HSD	S-2	4.11 m	to be provided	to be provided

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	45.4 lit/hr	45.4 lit/hr

41.Source of Fuel	Bharat Petroleum Corporation Limited/Hindustan Petroleum
42.Mode of Transportation of fuel to site	by roadway

43.Green Belt Development

Total RG area :	2758.36
No of trees to be cut :	NA
Number of trees to be planted :	255 Nos.
List of proposed native trees :	-
Timeline for completion of plantation :	mid of construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta Indica	Kadunimba	14	Semi Evergreen, Medicinal Plant
2	Bauhinia racemosa	Kanchan	14	Flowering Plant, Medicinal Plant
3	Ficus elastica	Rabar	14	Medicinal Plant

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4	Michelia champaka	Pivla Chafa	14	Flowering Plant, Medicinal Plant
5	Saraca Indica	Sita Ashok	14	Shady tree with red-yellow flowers, Medicinal Plant
6	Pongamia pinnata	Karanj	14	Ornamental Plant, Medicinal Plant, Shady tree
7	Mangifera indica	Aamba	14	Fruit bearing Plant
8	Albizia lebbeck	Shirish	14	Shady Tree, yellowish green fragrant flowers
9	Anthocephallus cadamba	Kadamb	14	Shady, large tree, ball shaped flowers
10	Aegle marmelos	Bel	14	Medicinal Plant, Fruit bearing Plant, Religious Plant
11	Annona reticulata	Ramphal	14	Fruit bearing Plant, Medicinal Plant
12	Arthocarpus heterophyllus	Phanas	14	Fruit bearing Plant, Medicinal Plant
13	Erythrina stricta	Pangara	11	Flowering Plant, Medicinal Plant
14	Ficus glomerata	Umbar	09	Medicinal Plant, Fruit bearing Plant, Religious Plant
15	Lagerstromia reginea	Taman	14	Flowering Plant, Medicinal Plant
16	Limonia aciddissima	Kavat	14	Fruit bearing Plant, Medicinal Plant
17	Nyctanthes arbour-tristis	Parijatak	14	Flowering Plant, Medicinal Plant
18	Syzygium cumini	Jambhul	11	Fruit bearing Plant, Medicinal Plant
19	Tamarindus indica	Chinch	14	Fruit bearing Plant, Medicinal Plant
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	40 KVA -1No
	During Operation phase (Connected load):	2209 KW
	During Operation phase (Demand load):	1963.55 KVA
	Transformer:	22 KV / 630 KVA – 3 No & 22 KV / 315 KVA – 1 No
	DG set as Power back-up during operation phase:	125 KVA – 2 No’
	Fuel used:	22.7 lit/hr
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

• Solar Water Heating Systems Will Be Done For Bathrooms.
• Solar lights will be provided for common amenities like Street lighting & Garden lighting.
• CFL & LED based lighting will be done in the common areas, landscape areas, signage’s, Entry gates and boundary compound walls etc.
• Auto Timer Switches will be provided for Street lights, Garden lights, Parking & staircase Lights & Other Common Area Lights, for saving electrical energy.
• Water Level Controllers with Timers will be used for Wa

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED Lamp & Fitting For Common Areas i.e. Bldg. Parking, Staircase, Passage & Terrace Floor.	25350.58 KWH/Year
2	Up Lighter - Light Fitting For Landscape Area.	584 KWH/Year
3	Solar Street Light Fitting - Pole Light On Road Side.	4818 KWH/Year
4	Street Light on the Bldg.	2698.08 KWH/Year
5	Energy Saving by Solar Hot Water System.	478125 KWH/Year

50.Details of pollution control Systems

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

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Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	76.10 Lakh
	O & M cost:	1.74 Lakh/Year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air & Noise Monitoring	0.50
2	Water Environment	Tanker Water for Construction, Water Monitoring	0.50
3	Land Environment	Site Sanitation –Mobile toilets	0.50
4	Socio-economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Creches For Children, Food for children, Personal Protective Equipment	1.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Sewage Treatment Plant	85.00	17.32
2	RWH	Rain Water Harvesting	3.50	1.00
3	MSW	Municipal Solid Waste	13.75	4.06
4	Solar System	Solar System	76.10	1.74
5	Landscaping	Landscaping	40.00	2.00
6	Safety Equipments	Safety Equipments	10.00	2.00
7	Post EC Monitoring	Post EC Monitoring	0.00	2.50
8	Dry Waste Management	Dry Waste Management	0.00	2.55
9	Alternative water supply	Alternative water supply	0.00	18.24

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

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53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	9694.60 m2
	Area per car:	45.09 m2
	Area per car:	45.09 m2
	Number of 2-Wheelers as approved by competent authority:	858
	Number of 4-Wheelers as approved by competent authority:	215
	Public Transport:	NA
	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	NA
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

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Minutes of 41st SEAC-3 meeting:

Case was earlier discussed in 25th SEAC-3 meeting and referred to Env Dept got the verification of violation. Env Dept has withdrawn violation on 30.03.2015.

During discussion following points emerged:

1. PP informed that they have obtained full potential sanction.

2. PP to obtain CFO NOC for building F.

3. PP to submit affadavit for not giving occupancy unless sustained water supply is obtained.

SEAC-3 decided to recommend the proposal for EC subject to above conditions.

Futher PP remained absent in 100th SEIAA meeting.

DECISION OF SEAC

The PP was absent in the meeting. Hence, the proposal could not be considered.

Specific Conditions by SEAC:

SEIAA DECISION

Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Amendment of Residential Project "X BKC (Orchid Paradise)"

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Residential Project "X BKC (Orchid Paradise)"
2.Type of institution	Private
3.Name of Project Proponent	M/s MIG (Bandra) Realtors & Builders Pvt. Ltd.
4.Name of Consultant	Project Proponent - M/s. MIG (Bandra) Realtors & Builders Pvt. Ltd.; Municipal Architect - M/s. SpaceAge Consultants; MEP Consultants - M/s Pankaj Dharkar & Associates ; Traffic & DMP Consultant - M/s EPRI; Environmental Consultant - M/s Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	Amendment of Residential Project (MHADA)
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project. EC Received earlier (SEAC2011/CR161/TC2 dtd 10.12.15)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental Clearance has been obtained earlier for existing project. EC letter - SEAC2011/CR161/TC2 dtd 10.12.15
8.Location of the project	The Residential Project 'X BKC Orchid Paradise' is located at plot bearing CS No. 649 & 649/1 to 48, situated at Bandra East, Mumbai.
9.Taluka	Mumbai
10.Village	Bandra
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	MHADA offer letter bearing no. CO/MB/RDC/NOC/F-425/738/2013 Dated 20.04.13. Concession report dtd. 8th sept 2015.
	IOD/IOA/Concession/Plan Approval Number: IOD Letter Approval No: CHE/WS/0477/H/(337)/NEW dated: 08/12/2016. ; Concession Approval No: CHE/WS/0477/H/(337)/NEW dated: 08/09/2015
	Approved Built-up Area: 2,66,228.43 sq.m
13.Note on the initiated work (If applicable)	Excavation for basement has been initiated on site as per EC dated 10th December 2015
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MHADA offer letter bearing no. CO/MB/RDC/NOC/F-425/738/2013 Dated 20.04.13.
15.Total Plot Area (sq. m.)	20149.32
16.Deductions	Road set back 1083.04 m2 ; RG Deduction : 4242.00 m2
17.Net Plot area	14824.28
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 122401
	b) Non FSI area (sq. m.): 143827.43
	c) Total BUA area (sq. m.): 266228.43
19.Total ground coverage (m2)	9575.35
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	47.0%
21.Estimated cost of the project	10972500000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing No.1	5B + St/Gr + 22 Floors	80.07
2	Wing No. 2	5B + St/Gr + 22 Floors	80.07
3	Wing No. 3	5B + St/Gr + 22 Floors	80.07
4	Wing No. 4	5B + St/Gr + 22 Floors	80.07
5	Wing No. 5	5B + St/Gr + 29 Floors	103.59

6	Wing No. 6	5B + St/Gr + 29 Floors	103.59
7	Wing No. 7	5B + St/Gr + 29 Floors	103.59
8	Wing No. 8	5B + St/Gr + 29 Floors	103.59
9	Wing No. 9	5B + St/Gr + 29 Floors	103.59
10	Wing No. 10	5B + St/Gr + 22 Floors	80.07
11	Wing No. 11	5B + St/Gr + 22 Floors	80.07
12	Wing No. 12	5B + St/Gr + 22 Floors	80.07
13	Wing No. 13	5B + St/Gr + 22 Floors	80.07
14	Wing No. 14	5B + St/Gr + 22 Floors	80.07
15	Wing No. 15	5B + St/Gr + 22 Floors	80.07

23.Number of tenants and shops	Flats : 1090 Nos.
24.Number of expected residents / users	5450 Nos.
25.Tenant density per hectare	541
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 site is well accessed by 24.20 M wide Nana Dharmaadhikari Road at North Side; 18.30 M wide Madhusudan Kalelkar Marg at South side; 18.30 M wide DP road at West Side and 9.15 M wide DP Road at East side.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 7.5 m provided
29.Existing structure (s) if any	The existing structures have been demolished.
30.Details of the demolition with disposal (If applicable)	The existing structures have been demolished. The demolition waste shall be disposed off at the designated unloading site.

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	491
	Recycled water - Flushing (CMD):	245
	Recycled water - Gardening (CMD):	30
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	766
	Fire fighting - Underground water tank(CMD):	FIRE WATER TANK 1 256 CUM FIRE WATER TANK 2 262 CUM FIRE WATER TANK 3 182 CUM FIRE WATER TANK 4 205 CUM
	Fire fighting - Overhead water tank(CMD):	FIRE FIGHTING OVER HEAD TANKS OF 30 CUM. EACH ON ALL 15 WINGS
	Excess treated water	341
Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	296
	Recycled water - Flushing (CMD):	245
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	766
	Fire fighting - Underground water tank(CMD):	FIRE WATER TANK 1 256 CUM FIRE WATER TANK 2 262 CUM FIRE WATER TANK 3 182 CUM FIRE WATER TANK 4 205 CUM
	Fire fighting - Overhead water tank(CMD):	FIRE FIGHTING OVER HEAD TANKS OF 30 CUM. EACH ON ALL 15 WINGS
	Excess treated water	371
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5 to 6 m
	Size and no of RWH tank(s) and Quantity:	4 tanks of total capacity 390 m3
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	10 Lakh
	Budgetary allocation (O & M cost) :	2 Lakh/year
	Details of UGT tanks if any :	UG tanks are located in Basement
35.Storm water drainage	**Natural water drainage pattern:**	Towards South-East direction of plot
	Quantity of storm water:	1.45 m3/sec
	Size of SWD:	700 mm dia
Sewage and Waste water	**Sewage generation in KLD:**	657
	STP technology:	MBBR
	Capacity of STP (CMD):	2 STPs of 325 & 350 respectively;
	Location & area of the STP:	Basement & Area of each STP provided is 320.60 sqm & 475.42 sqm
	Budgetary allocation (Capital cost):	140 lakhs
	Budgetary allocation (O & M cost):	2 Lakh/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation Quantity : 2,60,000 cum. Excavation started as per EC.
	Disposal of the construction waste debris:	Scrap material and other recyclable material like empty cement bags and empty paint cans to be sold to recyclers. Excavation shall be used for backfilling and for the purpose of constructing internal roads
Waste generation in the operation Phase:	**Dry waste:**	1090 kg/day
	Wet waste:	1635 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	30 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed off to recyclers.
	Wet waste:	Wet garbage will be treated using OWC and used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge will be used as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	Basement
	Area for the storage of waste & other material:	Space required for curing drum:2.7m X20m
	Area for machinery:	Space required for machine:206 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	30 Lakh
	O & M cost:	7.63 Lakh/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

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43.Green Belt Development	**Total RG area :**	6348.75
	No of trees to be cut :	113 Nos. (as per Tree NOC DYSG/TA/Z-III/165/P DTD. 21.09.2015)
	Number of trees to be planted :	390 Nos.
	List of proposed native trees :	As listed in List of proposed plantation on ground
	Timeline for completion of plantation :	At the time of Project Completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	NA	Acacia	30	NA
2	NA	Areca Palm	32	NA
3	NA	Ashoka	33	NA
4	NA	Badam	29	NA
5	NA	Bamboo	25	NA
6	NA	Banyan Tree	27	NA
7	NA	Bel	25	NA
8	NA	Champa	25	NA
9	NA	Christmas Tree	10	NA
10	NA	Coconut	28	NA
11	NA	Drum Stick	10	NA
12	NA	Guava	28	NA
13	NA	Gulmohar	34	NA
14	NA	Jackfruit	28	NA
15	NA	Jamun	15	NA
16	NA	Karanj	29	NA
17	NA	Kentia Palm	27	NA
18	NA	Mango	25	NA
19	NA	Neem	20	NA
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	300kW
	DG set as Power back-up during construction phase	250kVA
	During Operation phase (Connected load):	25.58 MW
	During Operation phase (Demand load):	9.25 MW
	Transformer:	2000kVA x 4
	DG set as Power back-up during operation phase:	Capacity of DG Set provided for 2 x 1250 kVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Day mode / evening modes and night mode for lighting control. Energy savings app.60%
Electronic ballast – Normal copper ballast consume app. 8 W where as electronic ballasts consume 4W for 36W fixture. i.e. watt losses with copper ballast are app. 25% whereas with electronic ballast shall be 12.5 % i.e. saving of app 12 % in lighting power.
Energy efficient lamps – Usage of lamps reduces power consumption in lighting. Use of CFL / T5 lamps in place of normal T8 / incandescent lamps shall bring d

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	AVERAGE ANNUAL ENERGY SAVINGS	20.72%
2	Total Average KWH/Annum Saving (due to use of VFD driven LIFTS @ 25% minimum,solar lighting,,timer / sensor,electronic ballast,lamp)	2817950.05 units
3	Savings due to lamp	378.92 units
4	Savings due to electronic ballast	162.39 units
5	Savings due to timer / sensor	463.99 units
6	Savings due to solar lighting	840 units
7	Savings due to use of VFD driven LIFTS @ 25% minimum	1490.00 units
8	Savings due to capacitors	4764.03 units

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:**	80 Lakh
	O & M cost:	4 Lakh/annum

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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	8
2	Noise Environment	Noise Baricades and Green Belt Developments	9
3	Water Environment	Modular STP , Drainage with sedimentation tanks	6
4	Good Health Practices	Site Sanitation & Health Care	6
5	Environment Monitoring	Air,water,noise soil monitoring during construction phase	4
6	Total	Total	33

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	RWH	10	2
2	Solid Waste Management	OWC	30	7.63
3	Landscaping	Landscaping	84	9
4	Air cleaning system	Air cleaning system	335	60
5	Energy	Energy system	80	4
6	DMP	DMP	300	57
7	Water Environment	STP	140	2
8	NA	NA	NA	NA

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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	Nos. of the junction to the main road & design of confluence:	Nos. of the junction to the main road & design of confluence 24.20 m wide Dharmadhikari DP Road on North, 18.30 m wide Madhusudan Kelkar DP Road on South, 18.30 m Road on West and 9.15 m wide Road on East The proposed site is 1.5 km from Bandra Railway Station
Parking details:	**Number and area of basement:**	5 Nos. (14.80 mtrs below ground lvl) 79,539.60 m2
	Number and area of podia:	NA
	Total Parking area:	47842.08 m2
	Area per car:	31.92m2
	Area per car:	31.92m2
	Number of 2-Wheelers as approved by competent authority:	Not Provided
	Number of 4-Wheelers as approved by competent authority:	1499 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	9m.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	13.5KM FROM SANJAY GANDHI NATIONAL PARK
	Category as per schedule of EIA Notification sheet	8(b) 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	04-01-2017

Brief information of the project by SEAC

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Minutes of 51st SEAC-2 meeting:

Representative of PP & Architect were present during the meeting along with environmental consultant M/s EAEPL. PP informed that they have received earlier EC vide letter dated 10/12/2015 for total construction area of 2,41,933 m2. PP informed that proposed expansion is due to increase in fungible FSI and MHADA FSI. PP also informed that concessions are approved and CFO NOC has been obtained.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that the project is earlier considered in 106th meeting of SEIAA. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 20,150 m2 & total construction area proposed in this meeting of the project is 2,66,228.43 m2.

PP submitted revised EIA copy for proposed expansion/amendment in the meeting. 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

During discussion following points emerged:

1. PP informed that they have received HRC NOC. PP to submit copy of the same.

2. PP to submit revised CFO NOC.

3. PP to submit copy of approved amended plans.

4. PP to ensure adequate space around the proposed buildings for free and unhindered fire tender movement so that in case of fire hazard, the fire brigade will get direct access to every flat in the building.

5. Structural reanalysis & stability audit report for the buildings on which vertical expansion is proposed.

6. PP to ensure that BOD of the treated water should be 5 mg/lit. Further, it is observed that 314 KLD treated water is proposed to be released in to the drains. PP to explore the possibility of recycling and reuse of treated waste water and submit.

7. PP to set up air cleaning system in the parking basements. PP to install WAAYU units or air pollution mitigation measures considering the significant increase in air pollution.

8. PP to ensure that evacuation time is 20 minutes or less. 9. PP to achieve 10% energy savings through renewable component & submit revised energy calculations indicating the same. PP may explore to increase renewable energy through additional PV panels, solar trees, solar winds etc. 10. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

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1. The PP has proposed 5 basements. PP to submit plan of de-watering system (geo-hydrology report)

2. Details of STP to be submitted

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for "Osians Garden" at Bhiwandi, Thane

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	"Osians Garden" at Bhiwandi, Thane
2.Type of institution	Private
3.Name of Project Proponent	Mr. Ganesh Kumar Gupta/ Mr. Vinod Kumar Singal (Directors)
4.Name of Consultant	Ultra-Tech
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing S. No. 5 (Pt.) & 85/2 of Village - Nagaon, Taluka – Bhiwandi, District – Thane, Mumbai
9.Taluka	Bhiwandi
10.Village	Nagaon
11.Area of the project	Bhiwandi-Nizampur City Municipal Corporation (B.N.C.M.C.)
12.IOD/IOA/Concession/Plan Approval Number	Received IOD and Commencement certificate from B.N.C.M.C. dt.30.09.2011 & 29.10.2011 respectively.
	IOD/IOA/Concession/Plan Approval Number: Building permission/54/Nagaon/2011-2012/1643
	Approved Built-up Area: 31184.76
13.Note on the initiated work (If applicable)	Total constructed work (FSI + NON FSI): 18, 775.16 Sq.mt. Received IOD and Commencement certificate from B.N.C.M.C. dt. 30.09.2011 & 29.10.2011 respectively.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	24,969.37 Sq.mt.
16.Deductions	6,069.50 Sq.mt.
17.Net Plot area	18,899.87 Sq.mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 31,169.74 Sq. mt.
	b) Non FSI area (sq. m.): 17,193.95 Sq. mt.
	c) Total BUA area (sq. m.): 48,363.69 Sq. mt.
19.Total ground coverage (m2)	4,040.61 Sq. mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21%
21.Estimated cost of the project	908000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1	Stilt + 12 Upper Residential Floors	37.93
2	Building 2	Wing A: Partly Stilt + Ground (Shopping) + 11 Upper Residential Floors	35.03
3	Building 2	Wing B: Partly Stilt + Ground (Shopping) + 11 Upper Residential Floors	35.03

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4	Building 2	Wing C: Partly Stilt + Ground (Shopping) + 11 Upper Residential Floors	35.03
5	Building 3	Stilt + 11 Upper Residential Floors	35.03
6	Building 4	Wing A: Stilt + 11 + 12 (pt.) Upper Residential Floors	37.93
7	Building 4	Wing B: Stilt + 12 Upper Residential Floors	37.93
8	Building 4	Wing C: Stilt + 13 Upper Residential Floors	40.83
9	Building 4	Wing D: Stilt + 12 Upper Residential Floors	37.93
10	Building 4	Wing E: Stilt + 11 + 12 (pt.) Upper Residential Floors	37.93

23.Number of tenants and shops	Flats: 459 Nos. Shops: 36 Nos.
24.Number of expected residents / users	2403 Nos.
25.Tenant density per hectare	243/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.00m 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	7.5m
29.Existing structure (s) if any	Partly completed construction as per approvals
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

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Dry season:	**Source of water**	B.N.C.M.C.
	Fresh water (CMD):	209
	Recycled water - Flushing (CMD):	106
	Recycled water - Gardening (CMD):	27
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	342
	Fire fighting - Underground water tank(CMD):	75
	Fire fighting - Overhead water tank(CMD):	50
	Excess treated water	113
Wet season:	**Source of water**	B.N.C.M.C. & Rainwater Harvesting (RWH) Tank
	Fresh water (CMD):	209
	Recycled water - Flushing (CMD):	106
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	315
	Fire fighting - Underground water tank(CMD):	75
	Fire fighting - Overhead water tank(CMD):	50
	Excess treated water	140
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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	0.5 mt. to 1.4 mt. below ground level
	Size and no of RWH tank(s) and Quantity:	4 nos. RWH tank of total capacity of 104 KL
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 22.40 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.74 Lacs/annum
	Details of UGT tanks if any :	Location(s) of the UGT tank(s): Underground
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged into the external SWD.
	Quantity of storm water:	0.90 m3/sec
	Size of SWD:	0.98 m3/sec
Sewage and Waste water	**Sewage generation in KLD:**	273 KLD
	STP technology:	MBBR (Moving Bed Bio Reactor)
	Capacity of STP (CMD):	1 STP of 300 KL
	Location & area of the STP:	Location : Underground and area : 300 Sq.mt.
	Budgetary allocation (Capital cost):	Rs.74.30 Lacs
	Budgetary allocation (O & M cost):	Rs.16.95 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	319 Kg/day
	Wet waste:	725 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	41 Kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	To B.N.C.M.C.
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	48 Sq.mt.
	Area for machinery:	12.00 Sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.9.00 Lacs
	O & M cost:	Rs.3.07 Lacs /annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

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43.Green Belt Development	**Total RG area :**	4745.33 Sq.mt.
	No of trees to be cut :	NA
	Number of trees to be planted :	192 nos.
	List of proposed native trees :	The list is given in list of proposed plantation on ground
	Timeline for completion of plantation :	Before occupation

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	Areca catechu	Supari	25	It is a medium-sized and palm tree, The seed contains alkaloids such as arecaidine and arecoline, which, Used as an interior landscaping species, Nuts are used for chewing.
2	Mimusops elengi	Bakul	71	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.
3	Azadirachta indica	Neem	14	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation.
4	Cassia fistula	Bahava	11	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
5	Couroupita guianensis	Kailashpati tree	34	Flower attracts to bees. Carpenter bees such as Xylocopa frontalis, as well as wasps, flower flies, and bumblebees visit the flowers. Planted as an ornamental tree. It cultivated for its fragrance. It posses medicinal properties. Fruit is used to fed pigs and other fouls.
6	Lagestroemia flos-regianae	Tamhan	4	Leaves are used in the Philippines as a folk medicine for the treatment of diabetes and kidney diseases. The fruit are used India to cure mouth ulcers. The roots are also considered astringent and the seeds narcotic.
7	Magnolia champaca	Son Champa	6	It is a large evergreen tree. It is best known for its strongly fragrant yellow or white flowers.

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8	Ficus racemosa	Umber	8	Its fruits are a favorite staple of the common Indian macaque. It serves as a food plant for the caterpillars of the butterfly the Two-brand Crow.
9	Neolamarkia cadamba	Kadamba	4	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.
10	Plumeria alba	Chapha	10	Evergreen shrub has narrow elongated leaves, large and strongly perfumed white flowers with a yellow center, Planted as an ornamental plant Heart of the wood is part of a traditional medical preparation taken as a vermifuge or as a laxative.
11	Cordia dichotoma	Cordia	5	Cordia dichotoma is a small to moderate-sized deciduous tree with a short bole and spreading crown Family tree butterfly Arhopala micale Seed kernal has medicinal properties
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

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Power requirement:	**Source of power supply :**	Torrent Power Ltd.
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	7424 KW
	During Operation phase (Demand load):	1942 KW
	Transformer:	3 nos. of 630 KVA
	DG set as Power back-up during operation phase:	1 DG set of 350 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Use of Solar PV Panels and Timer Controlled Operations for external lighting.
Use of all Motors with VFD control.
Use of LED lights with Time Controlled Operation.
Use of solar water heating system.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of Solar PV Panels and Timer Controlled Operations for external lighting. Use of all Motors with VFD control. Use of LED lights with Time Controlled Operation. Use of solar water heating system.	21.00 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.64.5 Lacs (Solar system)
	O & M cost:	Rs.6.45 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	2.88

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2	Air Environment	Air & Noise Quality Monitoring - On site sensors & By outside MOEF Approved Laboratory	10.88
3	Water Environment	Drinking water analysis	0.72
4	Land Environment	Site Sanitation	5.00
5	Health & Hygiene	Disinfection- Pest Control	4.80
6	Health & Hygiene	Health Check Up of workers	18.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, Noise Environment & Biological Environment	Cost for Gardening , Cost for Ambient air & Noise Monitoring , Cost for DG Stack Exhaust Monitoring	21.02	1.47
2	Water Environment - Waste water treatment	Cost for sewage Treatment Plant; Cost for Waste water Monitoring- On site sensors , By outside MOEF Approved Laboratory	74.30	16.95
3	Water Environment - Water Conserva.-tion (Rain Water Harvesting System)	Cost for RWH tank, Cost for treatment unit for rain water tanks , Cost for Rainwater Monitoring	22.40	0.74
4	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage in OWC, Cost for monitoring of organic manure	9.00	3.07
5	Energy Conservation	Solar system	64.5	6.45
6	Cost towards Disaster management	--	372.94	20.26

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

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53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	Two entry/ exits
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	8501.00 Sq. mt.
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	22 Nos.
	Number of 4-Wheelers as approved by competent authority:	341 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	Minimum 6.00 mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park: Within 12.00 Km, Tungareshwar Wildlife Sanctuary: Within 4.00 Km
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-09-2016

Brief information of the project by SEAC

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Minutes of 51st SEAC-1 meeting :

Representative of PP, Vinod Kumar Singhal & Architect Alvin Foujee were present during the meeting along with environmental consultant M/s Ultratech. PP informed that they have received IOD & Commencement Certificate on 30/09/2011 & 29/10/2011 respectively.

PP informed that they have completed construction admeasuring 18,775.16 m2 prior to EC. Further, PP requested to reappraise the project as per circular of Environment Dept. dated 21/04/2015 issued on the basis of High Court orders. Committee observed that construction admeasuring 18,775.16 m2 prior to EC is violation of the provisions of EIA Notification. However, considering High Court orders and subsequent circular of Environment Department dated 21/04/2015, Committee appraised the matter.

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. PP stated that total plot area is 24,969.37 m2 & total construction area proposed in this meeting of the project is 48,363.99 m2. 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

During discussion following points emerged:

1. PP & Architect to submit undertaking on legal paper regarding construction undertaken is by them is less than 20,000 m2 & if it is false, PP is liable for further legal action as per the law. PP to submit detailed statement for the construction completed till date.

2. PP to provide measures for adequate light & ventilation in the buildings.

3. It is observed that there are no sewer lines & no storm water drainage lines constructed up to the project site. Not connected yet. Therefore, PP to ensure that no possession shall be given before completion of the sewer lines & storm water drainage line and permission for the connection to the same by the competent authority. Local body to ensure the same. PP to ensure that no possession shall be given before completion & connection to sewer lines, storm water drainage lines & water supply.

4. PP to submit letter of commitment for drinking water to the project from Municipal Corporation. 5. PP to ensure that no treated or untreated sewage water should be released in storm water drainage lines or in nearby water bodies.

6. PP to ensure that BOD of the treated water should be 5 mg/lit.

7. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon?ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

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Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Residential Development with Shops at Kolshet, Thane

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Residential Development with Shops at Kolshet, Thane
2.Type of institution	Private
3.Name of Project Proponent	M/s. Sai Prabhat Buildcon LLP
4.Name of Consultant	M/s. Ultra-Tech (An ISO 9001-2008 Company, Accredited by NABET, Lab : Gazetted by MOEF, GoI)
5.Type of project	Housing project Category 8 (a)
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	S. No. 190, 191/1, 191/3, 191/5, 193/2pt, 193/3, 193/4, 193/5, 193/6, 193/7, 198/1A, 198/1B, 216/2 at village Kolshet, Tal. Thane, Dist. Thane, Maharashtra
9.Taluka	Thane
10.Village	Kolshet
11.Area of the project	Thane Municipal Corporation (T.M.C.)
12.IOD/IOA/Concession/Plan Approval Number	Sanction of Development Permission
	IOD/IOA/Concession/Plan Approval Number: Certificate No. 2684
	Approved Built-up Area: 49089.79
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	47,400.00 Sq. m.
16.Deductions	18,596.35 Sq. m.
17.Net Plot area	28,803.65 Sq. m.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 49,037.26
	b) Non FSI area (sq. m.): 65,681.18
	c) Total BUA area (sq. m.): 1,14,718.44
19.Total ground coverage (m2)	4892.30
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	16.98 % of Net Plot Area
21.Estimated cost of the project	1751900000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sale Building: Building A1	Basement + Stilt + 1 Podium + 19 Floors	64.10
2	Sale Building: Building A2	Basement + Stilt + 1 Podium + 19 Floors	64.10
3	Sale Building: Building B1	Basement + Stilt/Ground + 2 Podia + 22 Floors	77.00
4	Sale Building: Building B2	Basement + Stilt/Ground + 2 Podia + 22 Floors	77.00

5	Sale Building: Building B3	Basement + Stilt/Ground + 2 Podia + 22 Floors	77.00
6	Sale Building: Building C1	Basement + Stilt/Ground + 2 Podia + 22 Floors	77.00
7	Sale Building: Building C3	Basement + Stilt/Ground + 2 Podia + 22 Floors	77.00
8	Sale Building: Building D	Basement + Stilt + 26 Floors	82.50
9	Composite Building : Building C2	Basement + Stilt/Ground + 2 Podia + 22 Floors	77.00
10	Shopping Center (Reservation)	Basement + Ground + 2 + 3(pt) Floors	17.55

23.Number of tenants and shops	Sale: Flats: 659 nos. Shops: 12 nos. Composite Building: Sale Flats: 57 nos. MHADA: 26 nos. Shopping Center: 119 nos. of shops
24.Number of expected residents / users	Sale: 3331 nos., Composite: 415 nos., Shopping Center: 1525 nos. (floating population)
25.Tenant density per hectare	303/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	40.00 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	Minimum 9.0 m. to 13.20 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

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Dry season:	**Source of water**	T.M.C.
	Fresh water (CMD):	345 KLD
	Recycled water - Flushing (CMD):	185 KLD
	Recycled water - Gardening (CMD):	66 KLD
	Swimming pool make up (Cum):	6 KLD
	Total Water Requirement (CMD) :	602 KLD
	Fire fighting - Underground water tank(CMD):	100 Cum/building
	Fire fighting - Overhead water tank(CMD):	235 KLD
	Excess treated water	164 KLD
Wet season:	**Source of water**	T.M.C.
	Fresh water (CMD):	From T.M.C. = 302 KLD + From RWH tanks = 43 KLD
	Recycled water - Flushing (CMD):	185 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	6 KLD
	Total Water Requirement (CMD) :	536 KLD
	Fire fighting - Underground water tank(CMD):	100 Cum/building
	Fire fighting - Overhead water tank(CMD):	235 KLD
	Excess treated water	230 KLD
Details of Swimming pool (If any)	Swimming pool volume - 432 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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3.0 m. below ground level
	Size and no of RWH tank(s) and Quantity:	Building A1 & A2 -1 RWH tank of capacity 41 KL, Building B1, B2, B3 -1 RWH tank of capacity 67 KL, Building C1, C2, C3 - 1 RWH tank of capacity 71 KL, Building D - 1 RWH tank of capacity 31 KL, Shopping Center -1 RWH tank of capacity 86 KL
	Location of the RWH tank(s):	Building A1 & A2: Ground , Building B1, B2, B3, C1, C2, C3: First podium, Building D and Shopping Centre: Basement
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 44.60 Lacs
	Budgetary allocation (O & M cost) :	Rs. 1.76 Lacs/annum
	Details of UGT tanks if any :	Building A1 & A2: Basement Building B1, B2, B3, C1, C2, C3, D and Shopping Center: Below Basement
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged in to the external drain.
	Quantity of storm water:	0.68 m3/sec
	Size of SWD:	Capacity of internal SWD: 1.23 m3/sec
Sewage and Waste water	**Sewage generation in KLD:**	Building A1 & A2 - 84 KLD, Building B1, B2, B3, C1, C2 & C3 - 293 KLD, Building D & Shopping Center - 84 KLD
	STP technology:	SBR (Sequential Batch Reactor)
	Capacity of STP (CMD):	Building A1 & A2 - 100 KL, Building B1, B2, B3, C1, C2 & C3 - 325 KL, Building D & Shopping Centre - 105 KL
	Location & area of the STP:	Underground. Building A1 & A2 - 119 Sq. m., Building B1, B2, B3, C1, C2 & C3 - 283 Sq. m., Building D & Shopping Centre - 139 Sq. m.
	Budgetary allocation (Capital cost):	Rs. 129.15 Lacs
	Budgetary allocation (O & M cost):	Rs. 41.00 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	The excavated earth shall be partly reused on site and partly disposed to authorized landfill site.
	Disposal of the construction waste debris:	Construction waste shall be partly reused on the site and partly will be disposed to the authorized landfill site
Waste generation in the operation Phase:	**Dry waste:**	626 kg/day
	Wet waste:	1200 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	72 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Non recyclable: To T.M.C. and Recyclable: To recyclers
	Wet waste:	Organic Waste Converters (OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	As manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground Level
	Area for the storage of waste & other material:	Building A1 & A2 - 63 Sq. m., Building B1, B2, B3, C1, C2 & C3 - 79 Sq. m. and Building D & Shopping Center- 63 Sq. m.
	Area for machinery:	36 Sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 27.00 Lacs (Cost for treatment of biodegradable garbage in OWC)
	O & M cost:	Rs. 6.67 Lacs (Cost for treatment of biodegradable garbage in OWC)

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		

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43.Green Belt Development	**Total RG area :**	7201 Sq. m.
	No of trees to be cut :	Cut trees - 5 nos., Transplanted trees - 4 Nos.
	Number of trees to be planted :	510 nos.
	List of proposed native trees :	As given below in List of proposed plantation on ground
	Timeline for completion of plantation :	Before occupation

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mangifera indica	Mango	70	It is large evergreen and shady tree. Its uses are clearing digestion and acidity due to pitta (heat). Medicinal properties are attributed to different parts of mango tree.
2	Mangifera indica	Mango	70	It is large evergreen and shady tree. Its uses are clearing digestion and acidity due to pitta (heat). Medicinal properties are attributed to different parts of mango tree.
3	Plumeria species	White Frangipani	75	This flower one kind of plant, which is usually used as ornamental plants, because the flowers are fragrant and beautiful view. Besides useful as ornamental plants, frangipani flowers are also often used as a traditional medicine to address several diseases. Among ulcers, gonorrhea (gonorrhea), swelling, warts, calluses, smoothes the skin and yaws.
4	Azadirachta indica	Neem	72	Large tree, fast-growingÂ evergreen tree, drought resistance, Medicinal properties, good for roadside plantation.
5	Mimusops elengi	Bakul	77	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.
6	Lagestromia speciosa	Tamhan	71	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers, it has medicinal properties, wood is commercially used. Helps to control soil erosion
7	Milletia ovalifolia	Moulmein Rosewood	72	Its wood is mainly used for making furniture. It is grows on wide variety of soils. It has medicinal properties.
45.Total quantity of plants on ground				

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

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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)	100 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	10996 KW
	During Operation phase (Demand load):	4334 KW
	Transformer:	4 Nos of 990 kVA each
	DG set as Power back-up during operation phase:	Building A1 & A2 - D.G. Set of capacity 380 kVA Building ; B1, B2, B3 - D.G. Set of capacity 625 kVA; Building C1, C2, C3 - D.G. Set of capacity 600 kVA; Building D - D.G. Set of capacity 600 kVA and Shopping Center D.G. Set of capacity 600 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

30% of External Lighting on Solar PV Panels and rest lighting with timer controlled Operation
All Motors with VFD control
All water pump motors with high efficiency motors with high low level sensors
LED light with timer control Operated
T5 & CFL light with Operated amount of light
BEE 5 Star rated AC unit
Provision of solar water heating system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Over saving due to 30% of External Lighting on Solar PV Panels and rest lighting with timer controlled Operation All Motors with VFD control All water pump motors with high efficiency motors with high low level sensors LED light with timer control Operated T5 & CFL light with Operated amount of light BEE 5 Star rated AC unit Provision of solar water heating system Energy saving -20%	20 %

50.Details of pollution control Systems

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

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Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 1631.62 Lacs (Solar system)
	O & M cost:	Rs. 16.32 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	5.40
2	Air Environment	Air & Noise Quality monitoring - Onsite sensors	10.00
3	Air Environment	Air & Noise Quality monitoring - By MOEF Approved Laboratory	0.66
4	Water Environment	Drinking water analysis	0.54
5	Land Environment	Site Sanitation	5.00
6	Health & Hygiene	Disinfection at site	3.60
7	Health & Hygiene	Health Check up of workers	27.00
8	Health & Hygiene	First aid facilities	0.06
9	Health & Hygiene	Personal protective equipment	3.75
10	Cost towards Disaster Management	----	144.64

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 Environment & Biological Environment	Cost for Gardening	57.21	1.20
2	Air Environment & Biological Environment	Cost for Ambient air & Noise Monitoring	No set up cost is involved	0.22
3	Air Environment & Biological Environment	Cost for DG Stack Exhaust Monitoring	No set up cost is involved	0.14
4	Water Environment - Waste water treatment	Cost for sewage Treatment Plants	111.15	39.92
5	Water Environment - Waste water treatment	Cost for Waste water Monitoring - On site sensors	18.00	1.00
6	Water Environment - Waste water treatment	Cost for Waste water Monitoring - By MoEF approved Laboratory	No set up cost is involved	0.08
7	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for RWH tanks	29.60	1.48

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8	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for rain water tanks	15.00	0.05
9	Water Environment - Water Conservation (Rain Water Harvesting System)	Rain Water Quality Monitoring	No set up cost is involved	0.23
10	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage in OWC	27.00	6.43
11	Land Environment (Solid Waste Management)	Cost for monitoring of OWC manure	No set up cost is involved	0.24
12	Energy Conservation	Solar system	1631.62	16.32
13	Cost towards Disaster management	-	2164.79	21.65

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	3 Nos. of entry and exit

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Parking details:	**Number and area of basement:**	1 Basement for Building A1, A2, B1, B2, B3, C1, C2, C3, D and Shopping center
	Number and area of podia:	2 Podia for Building B1, B2, B3, C1, C2 and C3 1 Podium for Building A1 and A2
	Total Parking area:	4 â?? Wheeler: 23997.00 Sq. m. And 2 â?? Wheeler: 4746.00 Sq. m.
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	Required - 1126 nos., Provided - 1130 Nos.
	Number of 4-Wheelers as approved by competent authority:	Required - 993 nos., Provided - 995 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.0 m. to 12.0 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: Approx. 3 km
	Category as per schedule of EIA Notification sheet	Category 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	20-08-2015

Brief information of the project by SEAC

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Minutes of 105th SEIAA meeting :

The Authority noted that the proposal was considered by SEAC-II in their 48th meeting under screening category 8a (B2) as per EIA Notification, 2006.The proposal was submitted by PP for total plot area of 47400.00 Sq.m, BUA of 114718.44 Sq.m. The project proposal was discussed on the basis of consolidated statement, compliance of issues raised by SEAC–II submitted by PP, layout plan, floor plan, location of environmental infrastructures like STP, RWH, SWM, Disaster Management plan, parking plan etc. It was noted that the SEAC-II had recommended the proposal to SEIAA subject to compliance of the points raised by SEAC as below:-

1. PP, if applicable, to obtain NOC from Wild Life Board in terms of OM of MoEF dated 30/03/2015. Further, it is informed that part of the project falls within 3 kms of SGNP. PP & concerned Municipal Corporation to ensure the compliance of the NGT order dated 03/12/2015 in the application MA.No.125/2014 before issuing commencement certificate for further construction permissions in the area.

2. PP should not give possession till the time sewer line constructed and connected to the project. Local Body to ensure the same and should not give Occupation Certificate till the time sewer lines connected.

3. PP to provide tertiary treatment to achieve BOD of 5 mg/lit. PP to submit detailed report on STP technology proposed along with mass flow diagram considering dry and wet season.

4. PP shall operate and maintain Environmental Management Facilities (EMF) & fire-fighting system for 5 years after giving possession and shall also generate corpus fund for next 5 years.

5. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013. In 105th meeting of SEIAA, Authority noted that, PP has obtained IOD vide No. SOS/0042/11dated 13.01.2016for total built up area of 51169.95Sq.m. out of toal BUA of 114718.44 Sq.m.

DECISION OF SEAC

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After detailed deliberation, while agreeing with the stipulations as recommended by SEAC-II in its 48th meeting and compliance submitted by PP, the SEIAA decided to defer the consideration of the proposal till PP submits compliance of the following additional points:-

i) PP shall increase the width of the basement ramp in the shopping centres to 7.5 mtrs. from 6 mtrs and turning radius to be maintained at 9 mtr.

ii) Sustained water supply to the project will be provide by Thane Municipal Corporation However, as of now, there is no existing sewer connectivity. As per letter dated 19.10.2015, from TMC it has been informed that the TMC is in the process of implementing comprehensive sewerage system. It has also been stated that the probable time frame for completion of the project will be within three years after sanction of funds for the project. In view of this **the Occupancy Certificate shall be issued by the Local Planning Authority to the project only after personally ensuring the sustained water availability, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms by the officals of the local palnning authority.**

iii) PP shall submit an affidavit for ensuring the BOD of treated STP water to be less than 5 mg/L.

iv) Separate meter room shall be privded for shopping complex (G+3).

v) PP shall ensure that open the stair case of the shopping complex is opened out side the building on the ground floor instead of lobby for speedy evacuation of the residents during emergency.

vi) The width of the ramp going to the basement of building A, B & C to provide an exist ramp and its width be increased from six meters to 7.5 mters for two way movement of vehicles or six meter wide for one way movement of the vehicles.

vii) All electrical panels/pumps/controls shall be located on ground level in all buildings.

viii) PP informed that part of the project falls within 10 kms of SGNP. PP shall obtain NOC from Wild Life Board in terms of OM of MoEF dated 30/03/2015. Further, PP & concerned Municipal Corporation to ensure the compliance of the NGT order dated 03/12/2015 in the application MA.No.125/2014 before issuing commencement certificate for further construction permissions in the area.

ix) PP to dispose the e –waste as per E-waste Rules, 2016.

x) Separate meter room shall be provided for shopping complex.

Specific Conditions by SEAC:

SEIAA DECISION

Approved

Specific Conditions by SEIAA:

1) The Occupation Certificate shall be issued by the local planning authority only after ensuring sewer connectivity and water supply connectivity

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Redevelopment of Residential project

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Redevelopment of residential project
2.Type of institution	Private
3.Name of Project Proponent	Lakhani Realty LLP.
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	Modernization
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	New Vandana CHS. LTD. & New Soni CHS. LTD, Plot no.-208/4, 214/6 opposite Divisional Forest Office,LBS Marg (Agra Road), Thane West
9.Taluka	Thane
10.Village	Panchpakhadi
11.Area of the project	Thane Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	TMC approval
	IOD/IOA/Concession/Plan Approval Number: S3T/0019/16TMC/TDD/2068/17 dt. 28/02/2017
	Approved Built-up Area: 15088.68
13.Note on the initiated work (If applicable)	no work initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	8296 m2
16.Deductions	Area under M.R.T.S. Reservation on Vandana CHS.: 203.52 m2 , Area under M.R.T.S. Reservation on New Soni chs: 135.23 m2, Subdividing for plot type-C: 1310.57 m2
17.Net Plot area	6646.68 m2
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 18,610.10 m2
	b) Non FSI area (sq. m.): 27,831.17 m2
	c) Total BUA area (sq. m.): 46,441.27 m2
19.Total ground coverage (m2)	4183
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50
21.Estimated cost of the project	1250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1	2 B+G+ 2P+26 Floors	90.50
2	Building 2	2 B+G+ 2P+26 Floors	90.50
3	MHADA bldg	G+7	25
4	Club House	2 Floors (Above Podium)	--

23.Number of tenants and shops	No. of tenements: 222, Shops: 20 nos

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24.Number of expected residents / users	1150 nos
25.Tenant density per hectare	267 nos/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)	Site is accessible by Eastern Express Highway and Service road of 18.0 m, Fire station location is about 1.5 km.
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, 6 number of buildings G+3 storey
30.Details of the demolition with disposal (If applicable)	Demolition Quantity: 1495 m3, Disposal: Will be disposed as per directions of district collector/ TMC

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):	101
	Recycled water - Flushing (CMD):	53
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	157
	Fire fighting - Underground water tank(CMD):	As per fire NOC
	Fire fighting - Overhead water tank(CMD):	As per fire NOC
	Excess treated water	81

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Wet season:	**Source of water**	TMC
	Fresh water (CMD):	81
	Recycled water - Flushing (CMD):	53
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	157
	Fire fighting - Underground water tank(CMD):	As per fire NOC
	Fire fighting - Overhead water tank(CMD):	As per fire NOC
	Excess treated water	90
Details of Swimming pool (If any)	open to sky	

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:	2 tanks of 40 m3 total capacity
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	9.5 Lakh
	Budgetary allocation (O & M cost) :	1 lakh/yr
	Details of UGT tanks if any :	Dosmestic water tanks, fire tank and flushing tank.

35.Storm water drainage	**Natural water drainage pattern:**	SWD already present at site
	Quantity of storm water:	0.25 m3/s
	Size of SWD:	600 mm wide channel

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Sewage and Waste water	**Sewage generation in KLD:**	144 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	150 KLD
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	38 lakh
	Budgetary allocation (O & M cost):	9.5 lakh/yr

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	40,000 m3
	Disposal of the construction waste debris:	The construction debris will be utilized at site for Road Paving and plinth filling
Waste generation in the operation Phase:	**Dry waste:**	229 kg/d
	Wet waste:	344 kg/d
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	2 m3/d
	Others if any:	Household E waste generation
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 used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	2m3/d Sludge use as manure for gardening
	Others if any:	Household E waste will be handed over to authorized vendors
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	15 m2
	Area for machinery:	20 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	14 lakh
	O & M cost:	5.6 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			

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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 :**	2757.9 m2
	No of trees to be cut :	60 nos
	Number of trees to be planted :	150
	List of proposed native trees :	Mango, Nandruk , Palm, Asoka, Frangipani, Gulmohar, Kusum
	Timeline for completion of plantation :	2 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Magnifera Indica	mango	19	Mango trees grow to 35–40 m (115–131 ft) tall, with a crown radius of 10 m (33 ft).
2	Ficus microcarpa Linn.f	Nandruk	19	Shady tree, good for roadside plantation
3	Mimusops elengi	Bakul	25	Shady tree, small white fragrant flowers
4	Sarca asoca	Asoka	24	Shady tree with red-yellow flowers.

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5	Michelia champaca	son chafa	24	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
6	Pongamia pinnata	Karanj	25	Shady tree
7	Shirish	Albizia lebbeck	18	Shady tree, yellowish green fragrant 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	Chitrak	--	--
2	Kunti	--	--
3	Adulsa	--	--
4	Wedelia	--	--
5	Kardal	--	--

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	150 kVA
	DG set as Power back-up during construction phase	150 kVA
	During Operation phase (Connected load):	3.7 mW
	During Operation phase (Demand load):	2.1 mW
	Transformer:	--
	DG set as Power back-up during operation phase:	550 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

Provision of Solar hot water system, Solar Lighting for external and landscape area

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

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1	• Natural shading through elevation features to minimize heat gain and reduce air-conditioning requirement • Use of AC and façade system to reduce heat gain and power consumption • Use of low-e glass to reduce power requirement • Solar lighting in common areas, garden and road • Solar hot water for residential buildings • Solar street lights will be proposed • Energy efficient lighting fixtures (LED lights) to all buildings	24.45%

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:**	20 lakh
	O & M cost:	1 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	--	5
2	Site sanitation and Potable Water Supply to Labour	--	7
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)	5
4	Health check-up & first aid	--	5
5	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	(Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	6
6	Safety nets	--	7
7	Safety Training to Workers (Twice in Year), Safety Officer	--	6
8	Disinfection	--	1.5
9	Solid waste	--	3.5
10	Traffic and site management	--	4
11	Total	--	50

b) Operation Phase (with Break-up):

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

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1	STP (Tertiary)	Continuous O & M	38	9.5
2	Solar System	Weekly	20	1
3	Rain Water Harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	9.5	1
4	Landscape development	Daily	8.5	1.5
5	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	--	4
6	Total	--	76	17

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2
Parking details:	**Number and area of basement:**	2 Basements- Lower Basement – 4557.36 m2 Upper Basement – 4557.36 m2 MHADA basement: 271 m2
	Number and area of podia:	2 Level Podiums – Podium 1- 4183.86 m2 Podium 2 – 4070.78 m2
	Total Parking area:	12,155.35 m2
	Area per car:	29.29 m2
	Area per car:	29.29 m2
	Number of 2-Wheelers as approved by competent authority:	271 nos
	Number of 4-Wheelers as approved by competent authority:	443 nos
	Public Transport:	--
	Width of all Internal roads (m):	6 m

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	CRZ/ RRZ clearance obtain, if any:	--
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Project is located at 2.5 km from Sanjay Gandhi National park, Borivali.
	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	23-05-2016

Brief information of the project by SEAC

During discussion following points emerged:

1. PP to provide air cleaning system in basement.

2. It is observed that 2 wheeler parking is overlapping the RG area. PP to indicate 2 wheeler parking for shopping area and revise RG area calculations separately.

3. It is noted that area under project is flood prone area. PP to incorporate adequate measures.

4. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to provide air cleaning system in basement.

2. It is observed that 2 wheeler parking is overlapping the RG area. PP to indicate 2 wheeler parking for shopping area and revise RG area calculations separately.

3. It is noted that area under project is flood prone area. PP to incorporate adequate measures.

4. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

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SEIAA DECISION

Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Proposed Residential Expansion Project

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort,Mumbai-01 Time : 10.00 AM

1.Name of Project	Megacity Warai Proposed Residential Expansion Project
2.Type of institution	Private
3.Name of Project Proponent	Mr.Veer Bharti Koul-Xrbia Developers Ltd.
4.Name of Consultant	Mahabal Enviro Engineers Private limited, Thane, Maharashtra
5.Type of project	Residential & Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Environmental Clearance vide no. SEAC-2212/CR-353/TC-2 dated 30/09/2014
8.Location of the project	Plot bearing Sr. No. 6 (part), 9 (part), 10 (part), 12 (part) & 13 (part) at village Warai, Taluka Karjat, District Raigad
9.Taluka	Karjat
10.Village	Warai
11.Area of the project	Warai Grampanchayat
12.IOD/IOA/Concession/Plan Approval Number	IOD applicable
	IOD/IOA/Concession/Plan Approval Number: patra ja kra. sasannar ra a/bap/mauje warai tarfe waredi/ tal- karjat/ s.no.6/2 & eter/1067
	Approved Built-up Area: 100424
13.Note on the initiated work (If applicable)	We have initiated the construction as per previous received Environmental Clearance vide no.SEAC-2212/CR-353/TC-2 dated 30/09/2014
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	90,350 Sq.m
16.Deductions	4,518 Sq.m
17.Net Plot area	85,832 sq.m
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 98,581 Sq.m
	b) Non FSI area (sq. m.): 38,441 Sq.m
	c) Total BUA area (sq. m.): 1,37,022 Sq.m
19.Total ground coverage (m2)	14,693 Sq.m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	16%
21.Estimated cost of the project	1600000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Commercial-1	G+2	11.25 m
2	Building (A1,A2,B1,B2,B3,B4,C4,C5,C6,C8,C9,D1,D2,D3,D4,D5,D6,D8,E1,E2,F1,K1,K2,K3,K4)	G+4	14.95 M
3	Building (C1,C2,C3,C10,K5)	G+6	20.40 M
4	Building [(A3,A4),(A5,A6),(A7,A8),(A9,A10),B5,K6,K7,K8,K9]	G+8	26.10 M

23.Number of tenants and shops	Tenements-2584 Nos. & shops-104 Nos
24.Number of expected residents / users	12,920 Residents + 416 Commercial users

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25.Tenant density per hectare	313 nos.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Neral-Kalamb State Highway road 15 m, Internal road 12m, 9m & 6m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m & 12 m
29.Existing structure (s) if any	We have started the construction as per the received EC on 2014
30.Details of the demolition with disposal (If applicable)	No

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Irrigation Department, Karjat
	Fresh water (CMD):	1,181
	Recycled water - Flushing (CMD):	582
	Recycled water - Gardening (CMD):	72
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1,763
	Fire fighting - Underground water tank(CMD):	890
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	682

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Wet season:	**Source of water**	Irrigation Department, Karjat
	Fresh water (CMD):	1,181
	Recycled water - Flushing (CMD):	582
	Recycled water - Gardening (CMD):	36
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1,763
	Fire fighting - Underground water tank(CMD):	890
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	718
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	987	785	1763	800	281	1081	178	504	682

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10 m to 15 m
	Size and no of RWH tank(s) and Quantity:	1 no. of tank 30 cubic meter
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	23 nos.
	Size of recharge pits :	2m x 2m x 2m depth
	Budgetary allocation (Capital cost) :	Rs. 30 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.75 Lakh/year
	Details of UGT tanks if any :	Domestic UG tank capacity: 1,771 m3/day Flushing UG tank capacity: 872 m3/day Fire UG tank capacity: 890 m3/day

35.Storm water drainage	**Natural water drainage pattern:**	Along with road side nalla
	Quantity of storm water:	2.5 m3/sec
	Size of SWD:	1,200 mm x 800 mm

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Sewage and Waste water	**Sewage generation in KLD:**	1,410
	STP technology:	FAB
	Capacity of STP (CMD):	2 nos. having capacity 1,200 KLD & 250 KLD
	Location & area of the STP:	Near D8 & B1 building , Area for 1200 cubic meter/day -621 sq.m & Area for 250 cubic meter/day- 121 sq.m
	Budgetary allocation (Capital cost):	Rs. 140 lakhs
	Budgetary allocation (O & M cost):	Rs. 35 Lakhs/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 kg/day
	Disposal of the construction waste debris:	This material shall used for back filling and leveling of the plot and remaining will be disposed to authorized sites
Waste generation in the operation Phase:	**Dry waste:**	2,232 kg/day
	Wet waste:	3,600 kg/day
	Hazardous waste:	0.05 kg/day
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	60 kg/day
	Others if any:	Inert waste: 168 kg/day
Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed off to recyclers.
	Wet waste:	Wet garbage will be treated by using organic waste converter machin
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dry sludge can be used as manure for plantation & gardening purpopses inside the premises
	Others if any:	NA
Area requirement:	**Location(s):**	Besides building A10
	Area for the storage of waste & other material:	187.00 Sq.m
	Area for machinery:	84.00 Sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 20 Lakhs
	O & M cost:	Rs. 2.5 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			

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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 :**	14,410 sq. mt.
	No of trees to be cut :	30 nos. of trees to be cut & 15 nos. of trees to be transplanted
	Number of trees to be planted :	755 nos.
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	June 2021

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	Albizza lebbek	Shirish	51	Shady tree, yellowish green fragrant flowers
2	Alstonia scholaris	Saptaparn	58	Evergreen tropical tree
3	Butea monosperma	Palas	58	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
4	Mimisops elengii	Bakul	60	Shady tree, small white fragrant flowers
5	Ailanthus excelsa	Mahrukh	48	Medicinal tree.
6	Gmelina arborea	Shivan	45	Fruit bearing tree

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7	Michelia champaca	Son chafa	56	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
8	Lagerstroemia flos reginea	Tamhan	54	Medium sized tree, beautiful purple flowers
9	Bahunia racemosa	Apta	58	Small tree with small white flowers, Butterfly host plant
10	Ficus retusa	Nandruk	55	Shady tree, good for roadside plantation
11	Anthocephalus cadamba	Kadamb	51	Medicinal tree.
12	Azadiracta indica	Neem	63	Large tree, good for roadside plantation
13	Erythrina indica	Pangara	50	Flowering plant
14	Cassia fistula	Golden Shower Tree	48	Flowering plant
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited
	During Construction Phase: (Demand Load)	116 kVA
	DG set as Power back-up during construction phase	125 KVA x 1No.
	During Operation phase (Connected load):	4,294 KW
	During Operation phase (Demand load):	3,006 KW
	Transformer:	630 Kva -9 Nos.
	DG set as Power back-up during operation phase:	2 nos. x 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar PV panel
1% of total demand

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

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1	The following Energy Conservation Methods are proposed in the project: ? Use of energy efficient, BEE labelled electrical fixtures, solar powered lighting in external common area. Use of T5 tubes having 2.5 to 3 times life over conventional tubes and hence rate of disposal of tubes will be reduced drastically. ? Light Emitting Diode (LED) lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. of fixtures. ? Solar Electrical Power + LED lighting	13%

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. 47 Lakh
	O & M cost:	Rs. 4 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water For Dust Suppression	pH, color, odour, tubidity, TDS, BOD, COD, O and G	1.8
2	Water For Dust Suppression	pH, color, odour, tubidity, TDS, BOD, COD, O and G	1.8
3	Water For Dust Suppression	pH, color, odour, tubidity, TDS, BOD, COD, O and G	1.8
4	Water For Dust Suppression	pH, color, odour, tubidity, TDS, BOD, COD, O and G	1.8
5	Site Sanitation toilets, safe drinking water	Disinfection	2.5
6	Site Sanitation toilets, safe drinking water	Disinfection	2.5
7	Disinfection-	Disinfection	1.2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	2 nos. having capacity 1200 & 250 Cubic meter /day	140	35
2	Rain Water Harvesting	23 nos. of recharge pits & 1 RWH tank	30	0.75
3	Pond	5883 cubic meter capacity	20	3
4	Water Treatment Plant	1200 Cubic meter/day	15	5
5	Environmental Monitoring	MoEF approved laboratory	-	3
6	Gardening	755 no.of trees	15	3.5

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7	Solid waste	OWC -1 No.	20	2.5
8	Renewable Energy	Solar panels for street lights and LED	47	4
9	Fire fighting	Fire extinguisher	2.5	0.2
10	Facility Management Service	-	-	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:	Shelu Railway Station 8 Km
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	27,132 Sq.m
	Area per car:	25 Sq.m
	Area per car:	25 Sq.m
	Number of 2-Wheelers as approved by competent authority:	Scooters-3,230 Nos. & Cycles -3,230 Nos.
	Number of 4-Wheelers as approved by competent authority:	179 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	15 m , 12 m, & 9 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA

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	Category as per schedule of EIA Notification sheet	8 (a) ,B2
	Court cases pending if any	NA
	Other Relevant Informations	We have received previously received Environmental clearance vide no.SEAC-2212/CR-353/TC-2 dated 30/09/2014 Project was recommendedfor Environmental clearance in 51st SEAC II meeting . Accordingly wehave submitted the reply to authority.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

Brief information of the project by SEAC

Representative of PP, Mr. Virbharati Kaul & Architect Mr. Rahul Vikhe were present during the meeting along with environmental consultant M/s Mahabal. PP informed that they have received earlier EC vide letter dated 30/9/2014. Committee noted the comparative changes due to proposed expansion/amendment.The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that the project is earlier considered in 47th meeting of SEAC II. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 90,350 m2 & total construction area proposed in this meeting of the project is 1,37,022 m2. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, synopsis of compliances, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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During discussion following points emerged:

1. Town Planning authority to ensure that no occupation certificate is issued to the project till permission for lifting water from river by the Irrigation Department in the Government is accorded for the project.

2. PP stated that sewer lines are not present on site. It is also observed that PP made arrangement of holding ponds for holding treated water for 7 days only. Further, it is also observed that Poshir River is abutting the project. Therefore, Committee observed that due to expansion, capacity of holding pond is inadequate and there are chances of pollution of river. PP agreed and stated that the sewage generated 1410 m3/day from our residential project will be treated in 2 Nos. of STP having capacity 1200 m3/day and 250 m3/day.

3. PP submitted revised fire tender movement plan showing fire tender access to all the proposed buildings.

4. PP will not hand over environmental infrastructure like waste water treatment facility, solid waste management, landscaping, garden, waste water holding ponds and its maintenance, etc. To society PP to own all these environmental infrastructure assets and will be responsible for operation and maintenance of the facility for entire life of the project. PP to have separate corpus of Rs 1.5 Cr to be deposited in the separate account for the same purpose. This arrangement will ensure sustainable operation of environmental infrastructure in the project. Developer will be legally responsible for non-compliance of the condition. PP to submit commitment indicating the same.

5. PP will develop and own secured landfill site. PP to maintain and operate the facilities for entire life a project. PP to ensure that it is a zero garbage project.

6. Fire tender movement is restricted in building D-3 due to dead ends. Road around the area should be connected to have free movement of fire tender.

7. PP to achieve the BOD of 5mg/lit and ensure that project is zero discharge project. PP indicated that they have acquired 5 acres of land reuse/recycle of treated waste water.

8. PP to achieve 15% of total energy demand through solar PV panels. PP to also explore solar and wind hybrid models for renewable energy and submit revise energy calculations. PP to provide continuous energy supply for floating aerators.

9. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

PP to submit details of old EC and proposed modification. Hence deferred

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Environment Clearance for Proposed Residential Cum Commercial Project "Rajhans Kshitij" at village Manikpur and Diwanman, Vasai, Palghar

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Proposed Residential Cum Commercial Project "Rajhans Kshitij" at village Manikpur and Diwanman, Vasai, Palghar
2.Type of institution	Private
3.Name of Project Proponent	Mr. Jayesh B. Ajmera
4.Name of Consultant	Dr. D. A. Patil. Mahabal Enviro Engineers Pvt. Ltd
5.Type of project	Residential & 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	Proposed Residential Cum Commercial Layout on Land bearing .NO. 69 H.NO.1,2,3,4,5,6. S.NO.71,H.NO.1,2,3,4,5,6,7,8,9,10 S.NO.72,H.NO.1,2,3,4,5,6,7,8,9,10,11,12,13,14,15, S.NO.73,H.NO.4,5,6,7,8,9,10,11,12,13,14 S.NO.74,H.NO.1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17A,18,19,20 S.NO.74A,H.NO.17A S.NO.75,H.NO.1,2,3,4,5A,5B,6,7,8 S.NO.76,H.NO.16/A,16B,17 S.NO.77,H.NO.1A,1B,2,3,4,6 S.NO.78,H.NO.1,2,3,4,5,6,6d,7,8,9,9A,9B,9C,9D,10/1,10/2,10/3,11,12,13,14,15,16 AT VILL – MANIKPUR S.NO.119,H.NO.3A,3B S.NO.121,H.NO.1,2,5,6A,6B,7,8A,8B,9,10,11,12A,12B,13 S.NO.122,H.NO.2/2 S.NO.124,H.NO.4,5,6,7,11,12,13 S.NO.125, H.NO.1,2,3,4A,4B,4C,5,6,7A,7B S.NO.126,H.NO.1,2,3A,3B,4,5,6,7/1,7/2,8 S.NO.127,H.NO.1,2,3,4,5 S.NO.128,H.NO.1/1,1/2,2,4,5,6,7,8A,8B, S.NO.129,H.NO.1,2,5,6,7,8,9 VILL - DIWANMAN TAL - VASAI DIST –PALGHAR.
9.Taluka	Vasai
10.Village	Diwanman
11.Area of the project	Vasai-Virar City Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Plan Approved from VVCMC vide No. VVCMC/TP/2457/2016 DATED 10/10/2016
	IOD/IOA/Concession/Plan Approval Number: Plan Approved from VVCMC vide No. VVCMC/TP/2457/2016 DATED 10/10/2016
	Approved Built-up Area: 157937.56
13.Note on the initiated work (If applicable)	Out of 11 Bldgs, 3 (13wings) have been constructed. FSI : 19306.29 m2 Total Construction Area: 23513.3 m2 VVCMC approved plan vide order no. VVCMC/AM/BP-4258/VP-104/262/2013-14 dt 09/10/2013.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	CIDCO Approval : vide order no.CIDCO/VVSR/CC/BP-/4258/W/2052 dated 28/03/2007. VVCMC Approval : VVCMC/AM/BP-4258/VP-104/262/2013-14 dt 09/10/2013, VVCMC Approval : VVCMC/TP/2457/2016 DATED 10/10/2016
15.Total Plot Area (sq. m.)	1,37,012.20 m2
16.Deductions	58,995.33 m2
17.Net Plot area	78,016.87 m2
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,63,379.87 m2
	b) Non FSI area (sq. m.): 1,33,857.10 m2
	c) Total BUA area (sq. m.): 2,97,236.97 m2
19.Total ground coverage (m2)	25032 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.27 %
21.Estimated cost of the project	4300000000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building Type 1: Wing A,B,C&D	ST+7	22.65
2	Building Type 2: Wing A,B & C	ST+7	22.65
3	Building Type 3: Wing A,B,C,D,E,F&G	ST+7	22.65
4	Building Type 4: Wing A,B&C	ST+14	44.40
5	Building Type 5: Wing A,B,C,D,E&F	LG + G+ P+ 14 F	48
6	Building Type 6: Wing A,B,C,D&E	G+14	44.40
7	Building Type 7: Wing A,B,C,D,E,F,G&H	G+14	44.40
8	Building Type 8: Wing A,B,&C	G+14	44.40
9	Building Type 9: Wing A,B,C,D,E&F	LG+G+P+7F	27
10	Building Type 10: Wing A	G+7	22.65
11	Building Type 10: Wing A,B,&C	G+7	22.65
12	C.F.C. Building	ST+2	10.30
13	CC Building	ST+2	10.30
14	Market Building	ST+2	10.30
15	HS/PS Building	ST+7	30.0

23.Number of tenants and shops	Flats : 2102, Shops :74
24.Number of expected residents / users	21,558 Nos
25.Tenant density per hectare	154/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)	Proposed site is accessible by 40 m and 20 m wide D. P. Road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Nil
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

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32.Total Water Requirement

Dry season:	**Source of water**	VVMC
	Fresh water (CMD):	1112
	Recycled water - Flushing (CMD):	804
	Recycled water - Gardening (CMD):	72
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	1916
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	911
Wet season:	**Source of water**	VVMC
	Fresh water (CMD):	612
	Recycled water - Flushing (CMD):	804
	Recycled water - Gardening (CMD):	--
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	1916
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	983
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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4-5 m
	Size and no of RWH tank(s) and Quantity:	RWH : 5 tank will be provided with total capacity 1200 m3
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	--
	Size of recharge pits :	not applicable
	Budgetary allocation (Capital cost) :	120 Lakh
	Budgetary allocation (O & M cost) :	10 Lakh
	Details of UGT tanks if any :	Will be provided As per NBC . Location: Below Ground
35.Storm water drainage	**Natural water drainage pattern:**	Towards North west side of the plot
	Quantity of storm water:	15,585 m3/hr
	Size of SWD:	0.3 x 0.45 m, 0.45 x 0.6 m, 0.6 x 0.9 m, 0.9 x 1.2 m
Sewage and Waste water	**Sewage generation in KLD:**	1805 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	5 STP of 2000 KLD Capacity
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	400 Lakh
	Budgetary allocation (O & M cost):	80 Lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris quantity: 8631 m3
	Disposal of the construction waste debris:	The construction debris will be utilized at site for site formation
Waste generation in the operation Phase:	**Dry waste:**	2986 kg/day
	Wet waste:	4479 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	18 m3/day
	Others if any:	--

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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 and used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge will be use as manure for gardening.
	Others if any:	--
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	400 m2
	Area for machinery:	200 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	75 Lakh
	O & M cost:	25 Lakh

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

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43.Green Belt Development	**Total RG area :**	RG on ground -14280.49 m2. RG on Podium -2232.18 m2.
	No of trees to be cut :	Nil
	Number of trees to be planted :	713
	List of proposed native trees :	Given Below
	Timeline for completion of plantation :	Within 6 months from completion of constructions of buildings

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Bahava	65	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
2	Mimusops elengi	Bakul	42	Shady tree, small white fragrant flowers
3	Nyctanthes arbor-tristis	Parijatak	57	Small deciduous fast growing tree, beautiful flowrers.
4	Lagerstroemia flos-regineae	Tamhan	62	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
5	Murraya paniculata	Kunti	74	Small tree, Fragrant white flowers, Butterfly host plant
6	Saraca asoka	Sita Ashok	62	Shady tree with red-yellow flowers.
7	Bombax ceiba	Kate sawar	63	Large tree, red flowers
8	Erythrina indica	Pangara	84	Medium sized deciduous tree. Bright scarlet flowers.
9	Michelia champaca	Son chafa	77	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
10	Putranjiva roxburghii	Putranjiva	65	Medium sized evergreen tree
11	Anthocephallus cadamba	Kadamb	62	Shady, large tree, ball shaped flowers.
12	TOTAL		714	
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

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	500 kVA
	DG set as Power back-up during construction phase	500 kVA
	During Operation phase (Connected load):	26.4 MW
	During Operation phase (Demand load):	15.3 MW
	Transformer:	--
	DG set as Power back-up during operation phase:	Capacity of DG Set: 4000 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

? Solar lighting on street and RG area
? Solar Hot water for Residential buildings

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	? Efficient wall systems like solid blocks with fly ash content ? Energy efficient lighting using LED, T5 lamps in Lift Lobby, Toilets & Core area Passages ? Solar lighting on street and RG area ? Use of high energy efficient pumps for fire fighting, UG tanks and STP ? Solar Hot water for Residential buildings	21.52%

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:**	275 Lakh
	O & M cost:	20 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	--	12
2	Site sanitation	--	10

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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	5
4	Disinfection	--	3
5	Health check-up & first aid	--	6
6	Safety Personal Protective Equipment	--	12
7	Traffic Management	--	5
8	Safety nets	--	30
9	Tyre cleaning and Vehicle maintenance	--	3
10	Safety Training to Workers	--	8
11	TOTAL	--	94

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)	--	400	82
2	Solar System	--	275	20
3	Rainwater harvesting	--	120	10
4	Solid Waste Composting plant	--	75	25
5	Landscape	--	140	15
6	Environmental Monitoring	Environment Monitoring: Monthly, STP outlet water quality for pH, BOD, COD, SS, FC, Nitrate, Phosphate and O&G	--	5
7	Total cost	--	1010	157

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

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	Nos. of the junction to the main road & design of confluence:	--
Parking details:	**Number and area of basement:**	Lower Ground for building No. 5 , 9 & R.G. NO.12 Area = 12317.93SQMT
	Number and area of podia:	Podium For Building No. 5 & 9 Area = 10839.56 SQMT
	Total Parking area:	66048 m2 (Open and Stilt Parking)
	Area per car:	28.3 m2
	Area per car:	28.3 m2
	Number of 2-Wheelers as approved by competent authority:	2588 nos.
	Number of 4-Wheelers as approved by competent authority:	2196 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	NA
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	No
	Other Relevant Informations	==
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

SEIAA-AGENDA-0000000005

Minutes of 107th SEIAA meeting :

The SEIAA had considered the project earlier in its 98thmeeting held on 15th March, 2016. The proposal was recommended by SEAC II for grant of EC to the SEIAA as per discussion held in its 41st meeting. The Authority noted that the proposal was considered by SEAC-II in its 41stmeeting under screening category 8(b) B1 as per EIA Notification, 2006 and recommended to SEIAA subject to compliance of following points:-

(i) PP to ensure that organic manure from OWC should be used partly on project site and surplus will be given to nearby garden.

(ii) PP to ensure that Rs 11.5 crores will be deposited towards the operation and maintenance cost.

(iii) PP to submit DP remarks from CRZ point view from local authority to ascertain applicability of CRZ regulation.

(iv) PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

During the 98th meeting of SEIAA, PP informed that considering the violation observed of the provision contained in Environment (Protection) Act, 1986. A criminal case was filed before First Class Judicial Magistrate, Vasai, Palghar against project proponent by MPCB bearing criminal case (495/2015) dated 27.04.2015. PP informed that out of 11 buildings, 3 (13 wings) had been already constructed. The project comprises total plot area is 1,37,012.20S q.M, total built up area of 2,97,236.97 Sq.m out of which about 23,513.3 Sq.m construction has been completed without prior EC.

DECISION OF SEAC

In view of the blatant violation in disregard of the provisions contained in the Environmental (Protection) Act, 1986, the SEIAA came to the conclusion that this proposal is not a fit case for grant of Environmental Clearance, and this case shall be delisted until the case No.(495/2015) dated 27.04.2015 filed in the Court ofFirst Class Judicial Magistrate at Vasai, Palghar has been decided.

In 107th meeting of SEIAA, PP informed that they have prosed Phase – I and Phase – II of the proposed project of which the construction is completed on one of the phase where as other phase no activity been carried out there in the other plot of land. PP also informed that they are in the process of separating the ownership of both the phases.

In 107th meeting after detailed deliberations in view of the blatant violation in disregard of the provisions contained in the Environmental (Protection) Act, 1986, the SEIAA came to the conclusion that this proposal is not a fit case for grant of Environmental Clearance and this case shall continue to be delisted until the case No.(495/2015) dated 27.04.2015 filed before the First Class Judicial Magistrate at Vasai, Palghar has been decided.

Specific Conditions by SEAC:

SEIAA DECISION

PP to submit relevant court order. Hence deferred

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEIAA-AGENDA-0000020005

SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Application for Environmental clearance for expansion of of residential construction project Allura

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Allura
2.Type of institution	Private
3.Name of Project Proponent	Ankit enterprises
4.Name of Consultant	Oasis Environmental Foundation
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes environmental clerance obtained earlier vide no. SEAC 2012/CR-170/TC-2 dated 11/08/2014
8.Location of the project	S. No. 13(P),14(P),15(P),and 19(P), village Undri
9.Taluka	Haveli
10.Village	Undri
11.Area of the project	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 156808
13.Note on the initiated work (If applicable)	1,04,721.1 sqm as per previous EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	Existing:128600 sqm, Proposed 1500 sqm, Total: 130100 sqm
16.Deductions	10191.59 sqm
17.Net Plot area	119908.41 sqm
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Existing: 75756.05 sqm, Proposed 30624.28 sqm, Total: 106380.33 sqm
	b) Non FSI area (sq. m.): Existing:28958 sqm, Proposed :22781.42 sqm Total 51739.4 sqm
	c) Total BUA area (sq. m.): Existing:104714.05 sqm, Proposed: 53405.70 sqm Total:158119.75 sqm
19.Total ground coverage (m2)	22932
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25
21.Estimated cost of the project	3000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	M type (6)	P +7	24
2	N type (4)	2P+12	42
3	O type (2)	2P+12	42
4	P type ((1)	2P+13	45
5	Q type (1)	2P+13	45
6	R type (1)	2P +13	45
7	Amenity -2 building (1)	G	9.60

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8	Amenity -4 building (1)	G	18.75
9	Amenity -5 Building (1)	G	11.55
10	Club House	G+1	6.92

23.Number of tenants and shops	Existing: 448 + 3 amenity building, Proposed 234 tenements ,Total: 682 + 3 amenity building
24.Number of expected residents / users	Existing:3944 , Proposed :1170 , Total: 5114
25.Tenant density per hectare	250 ha as per DCR
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 m and 12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m and 12 m
29.Existing structure (s) if any	construction area as per old EC i.e. M type(6), N type (4), O type(2) and 3 amenity building
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

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Dry season:	**Source of water**	Undri Grampanchyat
	Fresh water (CMD):	333 Kl
	Recycled water - Flushing (CMD):	204 Kl
	Recycled water - Gardening (CMD):	117 Kl
	Swimming pool make up (Cum):	10 KL
	Total Water Requirement (CMD) :	654 Kl
	Fire fighting - Underground water tank(CMD):	300 Kl
	Fire fighting - Overhead water tank(CMD):	20,000 lit per building
	Excess treated water	162
Wet season:	**Source of water**	Undri Grampanchyat
	Fresh water (CMD):	333 Kl
	Recycled water - Flushing (CMD):	204 KL
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	10 KL
	Total Water Requirement (CMD) :	537 Kl
	Fire fighting - Underground water tank(CMD):	300 KL
	Fire fighting - Overhead water tank(CMD):	20,000 lit per building
	Excess treated water	279
Details of Swimming pool (If any)	Dimension of Swimming Pool: Main Pool Size : 282 sqm (dimensions) Baby Pool size : 30 sqm (dimensions) Total water Requirement in KL: 351 KLWater requirement for make up in KLD: 10Details of Plant & Machinery used for treatment of Swimming pool water: Filter, Self Priming pump, Control panel for pump, Hair and lint strainer, S/F main drain in white ABS, S/F vacuum point in white ABS, S/F inlet point in white ABS, overflow grating. Disinfection: ChlorinationDetails of quality to be achieved for swimming pool water and parameters to be monitored:Sr. No. Characteristics Values1 pH Value 7.5 to 8.52 Total alkalinity (as CaCO3), mg/l 50 to 1003 Aluminium (As Al), mg/l 0.14 Total residual chlorine, mg/l 5 a) Inlet max 0.56 b) Outlet min 0.27 Total dissolved solids, mg/l 15008 Chlorides (as Cl), mg/l 5009 Colour, Hazen Units 1010 Turbidity, NTU 1011 Coliforms (MPN) <10 per 100 ml	

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	203	130	333	20	13	43	183	117	300

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Gardening	112	5	117	112	5	117	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6 m bgl
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	26
	Size of recharge pits :	2 m X 2 m X 2 M
	Budgetary allocation (Capital cost) :	650000
	Budgetary allocation (O & M cost) :	100000
	Details of UGT tanks if any :	UGT type Existing Expansion Total Raw water storage tank 246 41 287 Drinking water storage tank 246 108 354 Fire UG tank Capacity 300 300 600 Total 792 449 1241
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	36.09 m3/min
	Size of SWD:	900 mm
Sewage and Waste water	**Sewage generation in KLD:**	Residential : Existing 276 KLD, Proposed 208 KLD, Total: 484 KLD Commercail : 69 KLD
	STP technology:	FAB
	Capacity of STP (CMD):	Residential: 495 KLD (105 + 175 + 215) 3 STP Commercial: 80 KLD (1)
	Location & area of the STP:	As per layout
	Budgetary allocation (Capital cost):	115 Lakhs
	Budgetary allocation (O & M cost):	48 Lakhs/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 %
	Disposal of the construction waste debris:	As filling material on same site
Waste generation in the operation Phase:	**Dry waste:**	Existing: 395 kg/day Proposed : 377 Kg/Day, Total: 772 Kg/Day
	Wet waste:	Existing: 642 Kg/day, Proposed : 421 Kg/day, Total : 1063 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	2 kg/day (Poly clinic)
	STP Sludge (Dry sludge):	Existing : 16.8 kg/day, Proposed: 13.2 kg/day, Total: 30 kg/day
	Others if any:	E waste: Existing: 450 kg/year, Proposed: 720 kg/year Total: 1184 kg/year

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Mode of Disposal of waste:	**Dry waste:**	Through authorized vendor
	Wet waste:	mechanical composter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Through authorized agency (as per Biomedical waste Rule)
	STP Sludge (Dry sludge):	used as manure after OWC treatment
	Others if any:	E - waste: Through authorized vendor
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	27.87 sqm
	Area for machinery:	78.03 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	44.5 lakhs
	O & M cost:	22.5 lakhs per annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	Not applicable	7 - 7.5	6.5 - 7.5	Not applicable
2	Total Suspended solids	mg/l	200 - 300	<10	Not to exceed 50 mg/l
3	Total Oil & Grease	mg/l	10	<5	Not applicable
4	BOD @3 days 27 degree C	mg/l	200 - 300	<10	Not to exceed 10 mg/l
5	COD	mg/l	350 - 400	<50	Not to exceed 100 mg/l
6	TDS	mg/l	----	<1000	Not applicable
7	Total Nitrogen	mg/l	40 - 50	<10	Not applicable
8	Ammonical Nitrogen	mg/l	---	<1	Not applicable
9	Phosphates	mg/l	5 - 7	<2	Not applicable
10	Phosphates	mg/l	5 - 7	<2	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

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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 :**	14275.84 sqm
	No of trees to be cut :	NA
	Number of trees to be planted :	585 existing + 906 Proposed = 1491 Total
	List of proposed native trees :	All are native plants
	Timeline for completion of plantation :	one year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Alianthus excerisa	Maharukh	55	Medicinal plant, Drought tolerant plant
2	Anthocephallus kadamba	Kadamba	60	Medicinal value, control soil erosion, Used in preparartion of perfumes
3	Bauhinia racemosa	Apta	81	Medicinal plant- Used in treatment of cough and skin ailments, drought tolerant
4	Cassia fistula	Bahava	91	Medicinal value- is widely used tonic that helps in reducing fever., Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly
5	Erythrina indica	Pangara	50	Fragrant flowers, drought tolerant, bird attracting, It is used for treating intestinal worms, anorexia, cholesterol imbalance etc
6	Lagerstroemia flosregineae	Tamhan	91	Medicinal use in diabetes and kidney diseases, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly
7	Mimusops elengi	Bakul	67	Fragrant flowers, Oil obtained from seed is used to make paint, Important honey plant, evergreen tree.

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8	Murraya paniculata	Kunti	69	Medicinal use - It is valued especially for its essential oil and used in medicine as an analgesic.
9	Michelia champka	Son chafa	67	Medicinal value- Its flowers and stem bark are useful in diabetes, quick wound healing, cardiac disorders, gout, dysuria and more., Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing
10	Nyctante sarbortristis	Parijatak	47	Fragrant flowers,Medicinal value,good for screening, nti-inflammatory, antispasmodic, hypotensive, respiratory stimulant.
11	Pongamia pinnata	Karanj	46	Medicinal plant Drought tolerant ,control soil erosion, Medicinal use - Today the oil is used as a liniment for rheumatism. Leaves are active against Micrococcus; their juice is used for colds, coughs, diarrhea, dyspepsia, flatulence, gonorrhea, and leprosy. Roots are used for cleaning gums, teeth, and ulcers.
12	Saraca asoka	Sita ashoka	90	Important Ayurvedic plant
13	Magnifera indica	Mango	49	Fruit bearing tree
14	Acrus sapota	Chikoo	43	Fruit bearing tree
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	3797 KW
	During Operation phase (Demand load):	4747 KW
	Transformer:	630 KVA X 6 Nos., 315 KVA X 1No.
	DG set as Power back-up during operation phase:	180 KVA (1) , 160 KVA(2), 50 KVA(1), 25 KVA (2)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

â?¢ Use of Solar Energy - Street and some of the landscape lighting, approx.5% of the total quantity.
â?¢ Use of CFL - 80% of common area lighting shall be with CFL or LED.
â?¢ Solar energy utilization - Envisaged for water heating & common area lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Water heater	864 KWH/day
2	Common lighting LED/CFL	200 KWH/day

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water	STP	STP
Solid waste	OWC	OWC
Noise due to DG set	acuostic enclosure	Acuostic enclosure

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	72.5 /- lakhs
	O & M cost:	1.0 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	Erosion control	Dust suppression measures	2.0
2	Site safety	Net PEE for labous, signs and boards etc.	3.0

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3	Site sanitation	mobile toilets for labour	1.5
4	Disinfection & health check up	medical camp, pest control for labour camp	2.0
5	Environmental monitoring	Air, noise monitoring and water and soil analysis	1.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	Piping cost upto final disposal of excess treated water	166	66
2	Rain water harvesting	Internal piping, pits with bore	11.25	1.50
3	Solid waste managment	OWC machine segregation of waste	64.5	32.65
4	Strom water management	Internal piping and up to final disposal	206.0	1.5
5	Landscape	Tree plantation, lawn maintanace	200.0	120
6	Energy conservation measures	Solar water heater,	124.5	1.75
7	Swimming pool	filtration plant, tanker water	83.2	5.2
8	Safety awareness & training	Fire fighting awareness and training	10	0
9	Environment Monitoring	Air,noise monitoring, soil and water analysis	0	2.0
10	Water supply in case of shortage	Water tanker	0	5.0

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

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Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Nil
	Total Parking area:	27811.80 sqm
	Area per car:	30 sqm
	Area per car:	30 sqm
	Number of 2-Wheelers as approved by competent authority:	1168
	Number of 4-Wheelers as approved by competent authority:	918
	Public Transport:	NA
	Width of all Internal roads (m):	6
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	NA
	Court cases pending if any	Case No 1340/2016,Civil judge senior division,16 July 2016
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

SEIAA AGENDA-000000005

Minutes of 55th SEAC-3 meeting : PP submitted their application for prior Environmental clearance for total plot area of 1,30,100 Sq. Mtrs, BUA of 1,77,306.14 Sq. Mtrs and FSI area of 1,11,380.33 Sq. Mtrs. PP proposes to construct 6 nos. of residential buildings, Amenity having polyclinic, Indoor games, Gym, multipurpose hall having maximum height of 69.00 Mtrs.

PP obtained earlier EC vide letter No. SEAC-2012/CR./TC-2 dated 29.09.2010 for plot area of 1,24,100.00 Mtrs. and BUA of 72,224.57 Sq. Mtrs. PP has obtained revised EC for Expansion vide letter No. SEAC-2012/CR./TC-2 dated 11.08.2014 for plot area of 1,28,600.00 Mtrs.,FSI area of 75,756.05 and BUA of 1,04,714.05Sq. Mtrs. Now PP has again applied for expansion in earlier EC.

The case was earlier considered in the 23rd meeting of the SEAC - III held from 6th to 9th January, 2015 when TOR's was given for the preparation of EIA report. PP has submitted the EIA report for appraisal in 52nd meeting of the SEAC - III held from 29th August to 1st September 2016. This committee took up the compliance report and other documents submitted by the Project Proponent for examination. The proposal is appraised as category 8 (a) B2.

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.

2. PP to include residual chlorine parameter in the monitoring of STP treated water.

3. PP informed that court case no. **1340/2016** in civil courts is pending between members of earlier phase bunglows and builders but committee has not gone through the merits of the same.

SEAC decided to recommend the proposal for Prior Environmental Clearance, subject to PP complying with the above conditions.

Specific Conditions by SEAC:

SEIAA DECISION

PP Absent. Deferred

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEIAA-AGENDA-0000000985

SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Residential Construction Project

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Celaeno
2.Type of institution	Private
3.Name of Project Proponent	Mr. Suresh Sukhwani
4.Name of Consultant	Not Applicable
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 12, Near hotel Govind Garden, Pimple Saudagar Pune- 27
9.Taluka	Haveli
10.Village	Not Applicable
11.Area of the project	PCMC
12.IOD/IOA/Concession/Plan Approval Number	Sanction Plan obtained
	IOD/IOA/Concession/Plan Approval Number: Sanction plan obtained for total build up area 35026 sq.m (FSI 16453.60 sq.m + Non FSI 18572.40 sq.m) vide no.B.P./EC/Pimple Saudagar/01/2017 dated on 3.2.2017
	Approved Built-up Area: 35026
13.Note on the initiated work (If applicable)	1 building (Building - B) constructed (11697.56 sq.m) as per sanction plan BP/PIMPLE SAUDAGAR/25/2013 DATED 10/05/2013
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	10700
16.Deductions	1310.24
17.Net Plot area	9389.76
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 12375.84
	b) Non FSI area (sq. m.): 15524.20
	c) Total BUA area (sq. m.): 27900.04
19.Total ground coverage (m2)	2908.31
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	31 %
21.Estimated cost of the project	650000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building Name - A -1	P + 12	37.70
2	Building Name - B -1	P + 12	37.70
3	Commercial Building -1	G + 0	5.45
4	club house -1	207.21 sq.m	4.10

23.Number of tenants and shops	Residential - 164 No. Commercial - 14 shops

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24.Number of expected residents / users	Residential Users - 820 , Commercial Users - 396
25.Tenant density per hectare	250 tenements/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	24 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	1 building as per sanction plan BP/PIMPLE SAUDAGAR/25/2013 DATED 10/05/2013
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	87 KLD
	Recycled water - Flushing (CMD):	47 KLD
	Recycled water - Gardening (CMD):	6 KLD
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	140 KLD
	Fire fighting - Underground water tank(CMD):	300 KLD
	Fire fighting - Overhead water tank(CMD):	20 KLD for each (building A & B)
	Excess treated water	67 KLD

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Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	87 KLD
	Recycled water - Flushing (CMD):	47 KLD
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	134 KLD
	Fire fighting - Underground water tank(CMD):	300 KLD
	Fire fighting - Overhead water tank(CMD):	20 KLD for each (building A & B)
	Excess treated water	73 KLD
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	Not applicable	87 KLD	87 KLD	Not applicable	8 KLD	8 KLD	Not applicable	79 KLD	79 KLD
Gardening	not applicable	6 KLD	6 KLD	not applicable	not applicable	not applicable	Not applicable	Not applicable	Not Applicable

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15 -20 M below ground level
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	4
	Size of recharge pits :	1.5 m x 1.5 m x 1.5 m
	Budgetary allocation (Capital cost) :	Rs.5.0 Lakh
	Budgetary allocation (O & M cost) :	Rs.1.0 Lakh/annum
	Details of UGT tanks if any :	Residential & Commercial: Domestic UG tank Capacity : 1,65,000 Lit Flushing UG tank Capacity : 55,000 Lit Fire UG tank Capacity : 3,00,000 Lit

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35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	3848.80 Kl/yr
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	120.17 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. - 130 KLD
	Location & area of the STP:	Pl refer layout
	Budgetary allocation (Capital cost):	Rs. 38.0 Lakh
	Budgetary allocation (O & M cost):	Rs. 4.0 Lakh/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	waste generation - 1% total raw materials
	Disposal of the construction waste debris:	Excavated earth material will be used for filling material for plinthj area and top soil for landscaping.
Waste generation in the operation Phase:	**Dry waste:**	184 Kg/day
	Wet waste:	254 Kg/day
	Hazardous waste:	not applicable
	Biomedical waste (If applicable):	not applicable
	STP Sludge (Dry sludge):	12.6 Kg/day
	Others if any:	not applicable
Mode of Disposal of waste:	**Dry waste:**	Through authorized vendor
	Wet waste:	Organic waste convertor
	Hazardous waste:	not applicable
	Biomedical waste (If applicable):	not applicable
	STP Sludge (Dry sludge):	Used as manure after OWC treatment
	Others if any:	not applicable
Area requirement:	**Location(s):**	pl refer layout
	Area for the storage of waste & other material:	18 sq.m
	Area for machinery:	12 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 5.0 Lakh
	O & M cost:	Rs. 3.0 Lakh/annum

37.Effluent Charecterestics

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

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1	pH	Not applicable	7 -7.5	6.5 -7.5	Not applicable
2	Total suspended Solids	mg/l	200-300	<10	not to exeed 50
3	BOD	mg/l	200 - 300	<10	not to exeed 10
4	COD	mg/l	350 -400	< 50	not to exeed 100

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 :	2041.3
No of trees to be cut :	Not applicable
Number of trees to be planted :	137
List of proposed native trees :	As per Below list
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	Ficus Benjamina	Ficus Benjamina	18	Ever green, Native, Attracts pigeon

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2	michelia champaca	Sonchafa	7	deciduous , native ,flowering
3	Caesalpinnia Pulcherima	Shankhasur	31	semi deciduous ,native, flowering
4	Bauhinia purpurea	Rakt Kanchan	33	native,flowering, medicinal uses, attracts butterflies
5	Largerstromia Indica	Tamhan	6	evergreen , native flowering
6	Plumeria Alba	Chapha	8	Deciduous, Native, fragrant flowe, used as ornamental tree
7	Plumeria Rubra	Chapha	7	deciduous, native, flowering
8	Saraca Ashoka	Sitacha Ashok	9	evergreen, shade giving, native, flowering, sacred tree in India
9	Terminalia Catappa	Badam	9	deciduous, native
10	Cordia Sebestena	Searlet cordia	9	evergreen, native, 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	Not allicable	not applicable	not applicable

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	25 KW
	DG set as Power back-up during construction phase	40 KVA
	During Operation phase (Connected load):	1697 KVA
	During Operation phase (Demand load):	1357 KVA
	Transformer:	630 KVA - 3 Nos.
	DG set as Power back-up during operation phase:	For Residencial - 125 KVA x 1 No. For Commercial - 62.5 KVA x 1 No.
	Fuel used:	for residential - 22.7 Lit/hr, for commercial - 13.7 lit./hr
	Details of high tension line passing through the plot if any:	not applicable

48.Energy saving by non-conventional method:

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â?¢ Solar Water Heating Systems Will Be Done For Bathrooms.

â?¢ Solar lights will be provided for common amenities like Street lighting & Garden lighting.

â?¢ CFL & LED based lighting will be done in the common areas, landscape areas, signageâ??s, Entry gates and boundary
compound walls etc.

â?¢ Auto Timer Switches will be provided for Street lights, Garden lights, Parking & staircase Lights & Other Common Area
Lights, for saving electrical energy.

â?¢ Water Level Controll

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total solar PV system required	7 KW
2	Through solar water heating	: 615 KWH
3	CFL Lights	40.97 KWH

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage generation	Not applicable	STP
Wet garbage	Not applicable	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 45.0 Lakhs
	O & M cost:	Rs. 1.5 lakh / yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Erosion control	Dust suppression measures & barricading	5.0
2	Site Safety	Nets, barricade	2.0
3	Site Sanitation	Public toilets	2.0
4	Disinfection & health check up	for labour	2.0
5	Environmental Monitoring	STP, OWC	1.0
6	NA	NA	NA

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment Plant (including external discharge to ULB sewer line)	to treat waste water	38.0	4.0
2	Solid waste Management	to	5.0	3.0

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3	Rain water Harvesting (including external discharge)	to save water	5.0	1.0
4	Landscape development	to maintain greenary on site	28.0	4.0
5	Storm water management	to collect rain water & reuse	6.0	1.0
6	Conventional Energy (Solar Water Heater)	to save electrical energy	17.0	0.5
7	Conventional Energy (Solar Street Light)	to save electrical energy	28.0	1.0
8	Environmental Monitoring	to maintain provided environmental services	---	1.0
9	Safety training & awareness	for labours	6.0	1.5
10	Water supply through tanker	in absence of water supply from PCMC	---	4.0

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

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Parking details:	**Number and area of basement:**	1 basement, area - 640 sq.m
	Number and area of podia:	1 podium, area - 640 sq.m
	Total Parking area:	5257 sq.m
	Area per car:	for basement - 35 sq.m , cover - 30 sq.m, open - 25 sq.m
	Area per car:	for basement - 35 sq.m , cover - 30 sq.m, open - 25 sq.m
	Number of 2-Wheelers as approved by competent authority:	472
	Number of 4-Wheelers as approved by competent authority:	106
	Public Transport:	not applicable
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

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Minutes of 39th SEAC-3 meeting:

PP submitted their application for total plot area of 10700.00 Sq. Mtrs, BUA of 27900.04 Sq. Mtrs and FSI area of 12375.84 Sq. Mtrs. PP proposes to construct 2 no of residential buildings having maximum height of 37.70 mtrs., one number of commercial building with 14 nos. of shops and a club house. PP remained absent in the 11th meeting of SEAC – III held from 17th to 20th June 2014; the case was considered in the 20th meeting of SEAC – III held from 4th to 7th November 2014 when the case was referred to the Environment Department for the issue of verification of the violation. Environment Department has withdrawn the proposed direction vide letter dated 25.05.2015, hence the case was appraised in the 33rd meeting of SEAC – III held from 8th to 11th September 2015. This committee took up the compliance report and other documents submitted by the Project Proponent for examination. The proposal is appraised as category 8 (a) B2.

During discussion following points emerged:

1. PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.

2. PP to submit undertaking for supply of water if local planning authority fails to supply the water.

SEAC decided to recommend the proposal for Prior Environmental Clearance, subject to the PP complying with the above conditions.

DECISION OF SEAC

Minutes of 99th SEIAA meeting:

The PP was absent in the meeting. Hence, the proposal could not be considered.

Specific Conditions by SEAC:

SEIAA DECISION

PP absent again. Deferred for the last time

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Implementation of Slum Rehabilitation Scheme (SRA) and construction of Residential Buildings.

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Implementation of Slum Rehabilitation Scheme (SRA) and construction of Residential Buildings.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vishal Agarwal.
4.Name of Consultant	AQURA Enviro Projects Pvt. Ltd.
5.Type of project	Slum Rehabilitation Scheme Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Modernization- SRA Scheme
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot Bearing C.T.S. no 412(pt) , 408(pt)
9.Taluka	Kurla
10.Village	Kanjur
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Revised LOI u/no. SRA/ENG/1624/S/ML/LOI as per Regulation 33(10) of DCR 1991
	IOD/IOA/Concession/Plan Approval Number: SRA/ENG/1624/S/ML/LOI Dated 30 DEC 2015
	Approved Built-up Area: 22941
13.Note on the initiated work (If applicable)	Removal of slum structures and excavation work has been initiated at the site.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Revised LOI u/no. SRA/ENG/1624/S/ML/LOI Dated 30 DEC 2015
15.Total Plot Area (sq. m.)	7647.00 sq. m
16.Deductions	1514.76 Sq. m
17.Net Plot area	6132.24 Sq. m
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 27693.04 Sq. m
	b) Non FSI area (sq. m.): 23834.29 Sq. m
	c) Total BUA area (sq. m.): 51527.33 Sq. m
19.Total ground coverage (m2)	3084
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50%
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	Rehab Building Wing A	Ground +18th floor	56.55
2	Rehab Building Wing B	Ground +18th floor	56.55
3	Rehab Building Wing C	Ground +18th floor	56.55
4	Rehab Building Wing D	Ground +18th floor	56.55
5	Rehab Building Wing E (School Building)	Ground + 1st to 4th Floor+ Upper 13th Residential floor	56.55
6	Sale Building 1 Wing F	Ground +22nd floor	69.85
7	Sale Building 2	Ground + 22nd floor	68.95

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8	Sale Building 3	Ground + 3 Podium + 17th residential floors (A & B Wing)	67.10

23.Number of tenants and shops	Rehab Building = Wing A,B,C,D,E = 310 Flats TOTAL Rehab Flats = 310 Flats Sale Building 1 = Wing F = 82 Flats Sale Building 2 = 84 Flats Sale Building 3 = A Wing = 98 Flats Sale Building 3 = B Wing = 95 Flats TOTAL Sale Flats = 359 Flats Nos. of Shops Rehab Building Wing D = 16 shops Sale Building 2 = 6 shops Sale Building 3 = 12 shops Total shops = 34 shops Society Office – 3 Balwadi – 4 Welfare Center – 4 Classrooms – 14 classrooms
24.Number of expected residents / users	Residential- 3345 Nos. Shops - 102 Nos. School - 590 Nos. Total Population – 4037 Nos.
25.Tenant density per hectare	Not Applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 m wide existing tank 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
29.Existing structure (s) if any	Not Applicable
30.Details of the demolition with disposal (If applicable)	Existing structure demolished.

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	311
	Recycled water - Flushing (CMD):	171
	Recycled water - Gardening (CMD):	3
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	482
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	150
	Excess treated water	207
Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	311
	Recycled water - Flushing (CMD):	171
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	482
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	150
	Excess treated water	210
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.5 to 3.0 m below ground level
	Size and no of RWH tank(s) and Quantity:	4 Nos of tanks of 52, 10, 10 & 42 CUM capacity
	Location of the RWH tank(s):	Ground Floor
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	18 Lakh
	Budgetary allocation (O & M cost) :	2 Lakh/year
	Details of UGT tanks if any :	Domestic tanks - 6 Nos of tanks having total capacity of 314 CMD Flushing tanks - 6 Nos of tanks having total capacity of 179 CMD Firefighting tanks - 3 Nos of tanks having total capacity of 450 CMD Rain Water Harvesting Tanks - 4 Nos of tanks having total capacity of 114 CUM
35.Storm water drainage	**Natural water drainage pattern:**	The run-off rainwater from roof of each building will be drained out effectively by providing sufficient no. of rainwater outlets / khurras and heavy duty / gauge PVC down take pipes designed to handle the intensity / flow of rainwater. These rain water pipes are located in the toilet shaft and along the periphery of the building. These pipes are routed with necessary slope and dropped vertically down to GL. The rain water pipes finally will be conveyed to the rain water harvesting tank at groun
	Quantity of storm water:	0.161 cum/sec
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	420 KLD
	STP technology:	Moving Bed Bioreactor (MBBR) Technology
	Capacity of STP (CMD):	STP 1: 212 m3/day, STP 2: 100 m3/day, STP 3: 117 m3/day
	Location & area of the STP:	Below Ground with total area of 191 Sq. m
	Budgetary allocation (Capital cost):	140 Lakh
	Budgetary allocation (O & M cost):	12 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris
	Disposal of the construction waste debris:	Disposal of construction waste will be as per “Construction and Demolition and De-silting Waste” (Management and Disposal) Rules 2006 at the designated site as directed by the MCGM.
Waste generation in the operation Phase:	**Dry waste:**	685 Kg/day
	Wet waste:	1070 Kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Approximately 21.46 kg/day.
	Others if any:	Not Applicable

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Mode of Disposal of waste:	**Dry waste:**	Dry waste would be further segregated into recyclable and non-recyclable. Recyclable will be handed over to authorize vendors and non recyclable will be disposed off at MCGM landfill sites
	Wet waste:	Wet Garbage will be treated in Mechanical Composting Unit 'Organic Waste Convertor' (OWC) and the compost generated would be used as manure for gardening purpose and excess would be disposed off to landfill site of MCGM or would be sold to authorize vendors.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge would be used as manure for gardening purpose and excess would be disposed off to landfill site of MCGM or would be sold to authorize vendors.
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Ground Floor
	Area for the storage of waste & other material:	40 Sq. m
	Area for machinery:	10 Sq. m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	22 Lakh
	O & M cost:	4 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

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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 :**	491.93 Sq. m
	No of trees to be cut :	2
	Number of trees to be planted :	77
	List of proposed native trees :	Adina cordifolia, Areca catechu, Lagerstroemia flosregineae, Michelia champaca, Polyalthia longifolia, Nyctanthus arboria, Putranjiva roxborbhi, Alstonia scholoris, Azadirachta indica
	Timeline for completion of plantation :	After completion of construction work

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Adina cordifolia	Kadamb	10	Shady, large tree, ball shaped flowers.
2	Areca catechu	Supari	12	Medium sized evergreen tree
3	Lagerstroemia flosregineae	Tamhan	10	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
4	Michelia champaca	Sonchapha	8	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
5	Polyalthia longifolia	Ashok	10	Shady tree with red-yellow flowers.
6	Nyctanthus arboria	Parijatak	10	Small deciduous fast growing tree, beautiful flowrers.
7	Putranjiva roxborbhi	Putranjiva	7	Medium sized evergreen tree
8	Alstonia scholoris	Saptaparni	5	Shady, large evergreen Tree, white fragrant flowers
9	Azadirachta indica	Neem	5	Semi-evergreen tree with medicinal value
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	Maharashtra state Electricity Board (M.S.E.B.)
	During Construction Phase: (Demand Load)	200 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	9271.32 KW
	During Operation phase (Demand load):	3973.62 KW
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	Rehab Bldg.- 2 No of 320 KVA, Sale Bldg.- 1 No of 380 KVA
	Fuel used:	LSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

30% of the external lighting is proposed on solar PV panels
Solar Water Heater

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	30% of the external lighting is proposed on solar PV panels	4%
2	Solar Water Heater	19%

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:**	43.20 Lakh
	O & M cost:	1 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Drinking water	-	0.10
2	Sanitation	-	0.50
3	Health check up	-	0.50

b) Operation Phase (with Break-up):

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

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1	STP & Sewerage network	3 Nos of STPS with total 429 KLD capacity	140	12
2	RWH System	4 Tanks of total 114 CUM capacity	18	2
3	Environmental Monitoring	6 monthly Water, Noise , Air quality analysis	-	5.0
4	Solid Waste Management	Organic Waste converter	22	4
5	Solar System (Solar Installation)	30% of the external lighting is proposed on solar PV panels & Solar Water Heater	44	2
6	Landscaping	plantation and maintenance of 77 trees	20	2
7	D. G. Set	3 DG sets of total 1020 KVA capacity	82	19
8	Common Area Lighting	-	20	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
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

52.Any Other Information

No Information Available

53.Traffic Management

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

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Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	3 Nos podium with 3155 Sq. m of area
	Total Parking area:	4116.00 Sq. m
	Area per car:	17.54 Sq. m
	Area per car:	17.54 Sq. m
	Number of 2-Wheelers as approved by competent authority:	58
	Number of 4-Wheelers as approved by competent authority:	234
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 B
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	30-06-2015

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Brief information of the project by SEAC

Representative of PP, Roshan Agarwal & Architect Jitu Patel were present during the meeting along with environmental consultant M/s Aqura. PP informed that they have received LOI dated 30/12/2015. PP also informed that there is reservation of municipal primary school (G+3 flrs) in the plot.

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 PP stated that total plot area is 7647 m2 & total construction area of the project is 51,527.33 m2. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit project specific disaster management plan, especially considering Municipal Primary School. Also mention operation cost in the DMP. BIS should be incorporated for school building during construction phase.

2. PP to submit commitment from MCGM to run the school. In absence of commitment from the MCGM, PP agreed to operate the school as CSR activities.

3. PP to ensure that slope of ramp should be 1:12 for adequate vehicular & fire tender movement.

4. It is observed that STP is below ground under the stilt. PP to ensure adequate ventilation for the STP area.

5. PP to ensure that BOD of treated sewage water should be less than 10mg/lit.

6. PP to incorporate appropriate changes in rehab section to provide adequate light & ventilation particularly in staircase sections & passages.

7. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

PP absent. Deferred

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Proposed Construction of Residential cum commercial Project at Land Bearing S. No. 73 H. No. A/1, A/2, A/3, B/1,B/2, B/3, B/4, S.No.112 H. No. 4&5 at Village - Achole; Tal - Vasai, Dist - Palghar by M/s. Shree Sai Construction

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Proposed Construction of Residential cum commercial Project at Land Bearing S. No. 73 H. No. A/1, A/2, A/3, B/1,B/2, B/3, B/4, S.No.112 H. No. 4&5 at Village - Achole; Tal - Vasai, Dist - Palghar by M/s. Shree Sai Construction
2.Type of institution	Private
3.Name of Project Proponent	Mr. Pramod Chaturvedi, M/s. Shree Sai Construction
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	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Land Bearing S.No.73 H. No. A/1, A/2,A/3, B/1,B/2, B/3, B/4, S. No.112 H. No.4 &5 At Village - Achole, Tal - Vasai, Dist - Palghar.
9.Taluka	Vasai
10.Village	Achole
11.Area of the project	Vasai Virar City Municipal Corporation (VVCMC)
12.IOD/IOA/Concession/Plan Approval Number	VVCMC letter VVCMC/TP/RDP/VP/-0121 & 3051/012/2013-14 dated 09.04.2013
	IOD/IOA/Concession/Plan Approval Number: VVCMC letter VVCMC/TP/RDP/VP/-0121 & 3051/012/2013-14 dated 09.04.2013
	Approved Built-up Area: 15634.01
13.Note on the initiated work (If applicable)	FSI Area: 15634.01 m2 Non FSI Area: 3438.18 m2 Total Construction Area: 19,072.19 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	VVCMC letter VVCMC/TP/RDP/VP/-0121 & 3051/012/2013-14 dated 09.04.2013
15.Total Plot Area (sq. m.)	17,930 m2
16.Deductions	3580.48 m2
17.Net Plot area	14221.52 m2
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 24300.50 m2
	b) Non FSI area (sq. m.): 6957.35 m2
	c) Total BUA area (sq. m.): 31257.85 m2
19.Total ground coverage (m2)	5101.085 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28.45%
21.Estimated cost of the project	670000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No. 1	G+4	15.35
2	Building No. 2 (A to F) wing	G+7	23.9
3	Building No. 3 (A to D) wing	G+7	23.9
4	Building No. 4 (A to D) wing	G+7	23.9
5	CFC Building	G+4	15

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6	Row Houses (1 to 9)	G+1	6.6

23.Number of tenants and shops	576 flats with shops 60 nos.
24.Number of expected residents / users	3,131 Nos
25.Tenant density per hectare	322/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)	20.0 m wide DP road (Achole Road)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 6 m
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	VVCMC
	Fresh water (CMD):	263 KLD
	Recycled water - Flushing (CMD):	137 KLD
	Recycled water - Gardening (CMD):	11 KLD
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	400 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	222 KLD

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Wet season:	**Source of water**	VVCMC
	Fresh water (CMD):	161 KLD
	Recycled water - Flushing (CMD):	137 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	400 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	233 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:	4 RWH tanks of total 200 m3 capacity
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	Rs.12 Lakh
	Budgetary allocation (O & M cost) :	1.0 Lakh/Year
	Details of UGT tanks if any :	Under-ground

35.Storm water drainage	**Natural water drainage pattern:**	Toward South to North- East direction of plot
	Quantity of storm water:	2,024 m3/hr
	Size of SWD:	350mm x 450 mm

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Sewage and Waste water	**Sewage generation in KLD:**	374 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	2 Nos. with Total 400 KLD (STP 1: 175 KLD & STP 2: 225 KLD)
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	Rs. 60 Lakh
	Budgetary allocation (O & M cost):	Rs. 12 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: 908 m3
	Disposal of the construction waste debris:	The construction debris is utilized at site for leveling.
Waste generation in the operation Phase:	**Dry waste:**	596 kg/day
	Wet waste:	894 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	4 m3/day
	Others if any:	Household E Waste generation
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 and used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	The E- waste shall be handed over to E-waste management vendor authorized by MPCB
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	50 m2
	Area for machinery:	30 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 25 Lakh
	O & M cost:	Rs. 9 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			

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	Total RG area required is 2133.22 m2 & provided is 2140 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	106
	List of proposed native trees :	105
	Timeline for completion of plantation :	1 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadiracta indica	Neem	15	Large tree, good for roadside plantation
2	Alstonia scholaris	Satwin	12	Shady Tree, white fragrant flowers
3	Saraca asoka	Sita Ashoka	10	Shady tree with red-yellow flowers.
4	Mimusops elengi	Bakul	12	Shady tree, small white fragrant flowers
5	Butea monosperma	Palas	8	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
6	Pongamia pinnata	Karanj	10	Shady tree.

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7	Ficus retusa	Nandruk	12	Shady tree, good for roadside plantation
8	Bauhinia racemosa	Apta	8	Small tree with small white flowers, Butterfly host plant
9	Delonix regia	Gulmohar	10	Shady tree
10	Michelia champaca	Son Chapha	8	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 :**	MSEDCL
	During Construction Phase: (Demand Load)	250 kVA
	DG set as Power back-up during construction phase	250 kVA
	During Operation phase (Connected load):	4.1 MW
	During Operation phase (Demand load):	2.2 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	2X250 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

ENERGY CONSERVATION MEASURES
Efficient wall systems like solid blocks with fly ash content
Energy efficient lighting using T5 lamps, CFLs in flats and LEDs in Lift Lobby, Toilets & Core area Passages
Use of high energy efficient pumps for fire fighting, UG tanks and STP
Solar Street lights are proposed for common areas such as open spaces, pathways, RG etc.
Solar Hot Water (300 Nos. of panels)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving: 21.63 %	21.63
2	Energy saving through Renewable energy source (Solar Hot Water) is: 15% as compared to base case demand load.	15%

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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. 35 lakh
	O & M cost:	Rs. 8 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	5
2	Site sanitation (Toilets)	-	3
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	5
4	Potable Water Supply to Labour Camp	-	6
5	Health check-up & first aid	-	4
6	Safety Personal Protective Equipment	Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.	5
7	Traffic Management	Sign Boards, Persons at entry exit and Parking area	3
8	Safety nets	-	7
9	Solid Waste Management & Site maintenance activity	-	1.5
10	Safety - Training to Workers (Twice in Year), Safety Officer	-	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)	Continuous O & M Environment Monitoring: Monthly, STP outlet water quality for pH, BOD, COD, SS, FC, Nitrate, Phosphate and O&G	60	12
2	Solar Hot water and Solar Street Light	Quarterly	35	8

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3	Solid waste management	Continuous O & M	25	9
4	Rainwater harvesting	During rainy season (cleaning of SWD, Contour trenches and filtration units before rainy season)	12	1
5	Landscape	Daily	25	3
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:	20.0 m wide DP road (Achole Road)
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	3,755 m2
	Area per car:	13.75 m2
	Area per car:	13.75 m2
	Number of 2-Wheelers as approved by competent authority:	638
	Number of 4-Wheelers as approved by competent authority:	227
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA

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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Project site is 8 km away from Tungareshwar wild life sanctuary. As per the proposed Eco Sensitive Zone of Tungareshwar wildlife sanctuary, our project site is outside of the Eco-sensitive zone.
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	Our application to VVCMC dated 20.01.2016 for revised approval of build-up area upto 24,300.50 m2
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	23-11-2015

Brief information of the project by SEAC

Minutes of 48th SEAC-2 meeting :

Representative of PP, Anil Gupta & Architect Ashok Rengade were present during the meeting.

PP further informed that they have completed construction admeasuring 19,072.19 m2. Further, PP requested to appraise the project as per circular of Environment Dept. dated 21/04/2015 issued on the basis of High Court orders. Committee observed that construction admeasuring 19,072.19 m2 prior to EC is violation of the provisions of EIA Notification. However, considering High Court orders and subsequent circular of Environment Department dated 21/04/2015, Committee appraised the matter.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is observed that proposal was earlier considered in 43rd SEAC II Meeting. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 17,930 m2 & total construction area of the project is 31,257.85 m2. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1,1A, presentation & plans submitted are taken on the record.

The synopsis of reply submitted by PP for the compliance points raised during 43rd SEAC II Meeting is noted by the Committee.

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DECISION OF SEAC

During discussion following points emerged:

1. PP to submit undertaking on legal paper regarding construction undertaken by them is less than 20,000 m2 & if it is false, PP will be liable for further legal action as per the law. PP to submit detailed statement for the construction completed till date.

2. PP, if applicable, to obtain NOC from Wild Life Board in terms of OM of MoEF dated 30/03/2015. Further, it is informed that part of the project falls within 8 kms of SGNP. PP & concerned Municipal Corporation to ensure the compliance of the NGT order dated 03/12/2015 in the application MA.No.125/2014 before issuing commencement certificate for further construction permissions in the area.

3. PP to ensure that fire tender movement is all around the buildings in the project.

4. PP to provide tertiary treatment to achieve BOD of 5 mg/lit. PP to submit detailed report on STP technology proposed along with mass flow diagram considering dry and wet season.

5. Further, treated water should be reused / recycled in the project itself to ensure the zero discharge outside the project boundary. PP to submit details accordingly.

6. It is observed that there is no sewer line constructed up to the project site. Therefore, 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.

7. PP to submit details of the source & commitment regarding drinking water from the competent authority.

8. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

The PP states that

The Development permission of the proposal on land bearing S.No.73 H.No. A/1, A/2, A/3, B/1, B/2, B/3,B/4, S.No.112, H.No. 4 & 5,of village achole admeasuring 14490 sq mts was obtained from CIDCO vide order no. [i] CIDCO/VVSR/CC/BP/-3800/E/151 dated 8/01/2007. Then lands bearing S. No. 112/4 &5 of village Achole admeasuring 3440 sq mts was amalgamated to this proposal. Further latest Revised Development permission was granted by Vasai Virar City Municipal Corporation vide letter no. VVCMC/TP/CC/VP-0121 &3051/076/2013-14 dated 9/04/2013 for the combined proposal admeasuring17930 sq mts. The combined proposal now attracts the provisions of MOEF as the construction areaexceeds 20000 sq mts with future loading of TDR. The PP has therefore requested for approval for **31257.85 sq meters (FSI=**24300.50 m2**+nonFSI=**6957.35 m2**)** in the EC. The Authority approves this area. However, the PP shall restrict construction to the area mentioned in the IOD/Concession Certificate issued by the Planning Authority as and when amended and in any case shall not exceed 31257.85 sq meters.

Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for "ATLANTIS" PROPOSED DEVELOPMENT SCHEME ATPlot bearing c.t.s no. 320 , t.p.s no 1 , panchpakhadi, thane (w)

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	"ATLANTIS" PROPOSED DEVELOPMENT SCHEME
2.Type of institution	Private
3.Name of Project Proponent	Ashwamedh Builders & Developers
4.Name of Consultant	Mr. H.K. Desai Enviro Analysts & Engineers Pvt. Ltd.,B-1003, Enviro House Western Edge II, Behind Metro Mall Western Express Highway Borivali (E), Mumbai-400066
5.Type of project	SRA Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing CTS No. 320 , TPS No 1 , panchpakhadi, thane (w)
9.Taluka	thane
10.Village	thane
11.Area of the project	TMC (Thane Municipal Corporation)
12.IOD/IOA/Concession/Plan Approval Number	YES
	IOD/IOA/Concession/Plan Approval Number: TMC/TDD/0259/10
	Approved Built-up Area: 17077
13.Note on the initiated work (If applicable)	Yes.17077.1sqm constructed on site
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	TMC/TDD/4230 dtd. 17-12-2015
15.Total Plot Area (sq. m.)	5994.69
16.Deductions	1664.83
17.Net Plot area	4329.86
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 17740.64
	b) Non FSI area (sq. m.): 7480.12
	c) Total BUA area (sq. m.): 25220.76
19.Total ground coverage (m2)	2997.34
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50%)
21.Estimated cost of the project	810000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab 1(R1)	Gr(p) + st + 8 floors	24.91
2	Rehab 2(R2)	Gr + 8 floors	24.91
3	Rehab 3(R3)	Gr+8 floors	24.91
4	Rehab 4(R4)	St+7floors+8(p)floors	24.91
5	Sale-1(S1)	Gr(p)+St+1floor (p)+2nd to 24th (p) floors	69.46

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23.Number of tenants and shops	Rehab –Residential – 334 no's, commercial units – 29 no's Sale -207 no's
24.Number of expected residents / users	Rehab –Residential – 1670 no's, commercial units – 87no's Sale -1035 no's
25.Tenant density per hectare	950/hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12.00 m wide T.P road & 15 m wide service road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12.00 m wide T.P road & 15 m wide service road
29.Existing structure (s) if any	R1: Gr(p) + st + 8 floors R2: Gr + 8 floors R3: Gr+8 floors R4: st+7floors+8(p)floors S1: Gr(p)+St+1floor (p)+2nd to 14th (p) floors
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**	TMC / treated water from STP
	Fresh water (CMD):	247
	Recycled water - Flushing (CMD):	123
	Recycled water - Gardening (CMD):	3
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	373
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	180
	Excess treated water	157

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Wet season:	**Source of water**	TMC/RWH/ treated water from STP
	Fresh water (CMD):	247
	Recycled water - Flushing (CMD):	123
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	370
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	180
	Excess treated water	160
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:**	4 m – 5 m bgl
	Size and no of RWH tank(s) and Quantity:	101 cu.m (2 days storage)
	Location of the RWH tank(s):	Ground level
	Quantity of recharge pits:	NIL
	Size of recharge pits :	NO
	Budgetary allocation (Capital cost) :	Rs 30 Lakhs
	Budgetary allocation (O & M cost) :	6 Lakhs
	Details of UGT tanks if any :	Domestic Water Tank =247 KL Flushing Water Tank =123 KL Fire Water Tank =150 KL Rain Water Harvesting Tank =101 KL Location of tank=Ground Level

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35.Storm water drainage	**Natural water drainage pattern:**	North to South
	Quantity of storm water:	0.404 m3/s
	Size of SWD:	0.45 m X 0.9 m
Sewage and Waste water	**Sewage generation in KLD:**	314 KLD
	STP technology:	RMBR
	Capacity of STP (CMD):	320 KLD
	Location & area of the STP:	Below ground level
	Budgetary allocation (Capital cost):	Rs 45 Lakhs
	Budgetary allocation (O & M cost):	Rs 4.5 lakhs /annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	yes
	Disposal of the construction waste debris:	Topsoil =449 cum =To be used for landscaping, Excavated material=8991 cum =Excavated material to be used for backfilling and for internal roads, Cement Bags =131857 Bags =Empty bags to be handed over to recycler, Paint container (@20L) =228 cans =To be handed over to recycler, Scrap metal generated=3 tons =100 % to be sold for recycling, Tiles=685 sqft=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:**	556
	Wet waste:	819
	Hazardous waste:	NIL
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	15
	Others if any:	No
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:	NIL
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	To be used as a manure
	Others if any:	NIL
Area requirement:	**Location(s):**	at ground level
	Area for the storage of waste & other material:	33
	Area for machinery:	12

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Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 45 Lakhs
	O & M cost:	Rs 4.5 lakhs /annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	RG on ground: 344.75 sqm, Elevated RG: 167.59 sqm
	No of trees to be cut :	NIL
	Number of trees to be planted :	20
	List of proposed native trees :	AS BELOW
	Timeline for completion of plantation :	at 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

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1	Alstonia scholaris	DEVIL'S TREE	2	evergreen tropical tree
2	Azadirachta Indica	THE INDIAN LILAC	4	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species,
3	Butea Monosperma	THE FLAME OF THE FOREST	4	medicinal value, bird attracting species, to control soil erosion
4	Eucalyptus citriodora	LEMON EUCALYPTUS	3	medicinal value
5	Madhuca longifolla	THE HONEY TREE	3	indain tropical tree, medicinal vlaue
6	Mangifera Indica	THE MANGO TREE	2	fruit bearing tree, shady
7	Terminalia Arjuna	ARJUN TREE	2	shady
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	100 KVA
	During Operation phase (Connected load):	4677.6 Kw
	During Operation phase (Demand load):	1186.2 Kw
	Transformer:	NA
	DG set as Power back-up during operation phase:	1 X 320 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	no

48.Energy saving by non-conventional method:

1. common area lighting
2. used of LED lights
3. solar hot water system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	31	31

50.Details of pollution control Systems

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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 107 lakhs
	O & M cost:	Rs. 21 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 for dust suppression	6.00
2	Land Environment	iste sanitation	0.80
3	Environment	Environmental Monitoring	1.00
4	EHS	disinfection	1.5
5	EHS	health check up	15.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	soild waste	OWC	16	2
2	water	STP	45	4.5
3	Energy savings	solar system	107	21
4	water	RWH system	30	6
5	land	Landscaping	8	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
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:	12.00 m wide T.P road & 15 m wide service road

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Parking details:	**Number and area of basement:**	nil
	Number and area of podia:	nil
	Total Parking area:	----------
	Area per car:	----------
	Area per car:	----------
	Number of 2-Wheelers as approved by competent authority:	103
	Number of 4-Wheelers as approved by competent authority:	63
	Public Transport:	nil
	Width of all Internal roads (m):	12.00 m wide
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi national park -3 km Arial distance (west)
	Category as per schedule of EIA Notification sheet	Schedule 8a, Category B
	Court cases pending if any	Nil
	Other Relevant Informations	nil
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	20-08-2015

Brief information of the project by SEAC

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Minutes of 51st SEAC-2 :

PP informed that they have received LOI in 2008 & CC on 14/05/2010 with 2.5 FSI for total construction area of 18,987.25 m2. Now, as per the policy of September 2014, PP has received additional 0.5 FSI on 17/12/2015. PP stated that because of additional 0.5 FSI, total construction area is now 25,475.25 m2 hence application for expansion.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that the project is earlier considered in 45th meeting of SEAC II. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP further stated that total plot area is 5994.69 m2 & total construction area of the project is 25,474.26 m2. 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

During discussion following points emerged:

1. PP & Architect to submit undertaking on legal paper regarding construction undertaken is by them is less than 20,000 m2 & if it is false, PP is liable for further legal action as per the law. PP to submit detailed statement for the construction completed till date.

2. It is noted that access to fire tender is only for sale building and there is no access to the rehab buildings. Further, rehab components are already been constructed. Sale component up to 14th floor has also been constructed. Vertical Expansion from 14th to 24th part is on sale component only.

3. Even at present also rehab building appears to be at risk since no fire tender movement around the land locked building. PP to submit plan / commitment of public authority for providing access to fire tender for rehab component.

4. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

SEIAA DECISION

The PP was directed to submit the OC for the rehab building. This he has done on 2nd May 2017. Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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SEIAA Meeting

SEIAA Meeting number: SEIAA Meeting No. 110 **Meeting Date** May 2, 2017

Subject: Environment Clearance for Expansion of ''ACME BOULEVARD'' - Proposed Redevelopment Project by M/s. Acme Realties Pvt. Ltd.

General Information: Venue: Maharashtra State Finance Corporation (MSFC), United India Building, 1st Floor, Sir P.M.Road, Fort Mumbai-01 Time : 10.00 AM

1.Name of Project	Expansion of ''ACME BOULEVARD'' - Proposed Redevelopment Project
2.Type of institution	Private
3.Name of Project Proponent	M/s. Acme Realties Pvt. Ltd.
4.Name of Consultant	Project Proponent : M/s . Acme Realties Pvt. Ltd ; Architect : M/s. HM Jhaveri and Sons; Traffic Consultant :M/s Transportation and Traffic Engineering ;DMP Consultant:M/s. Bonde technical services.;Environmental Consultant: M/s Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	Redevelopment Project, (Under DCR 33/(5) of MCGM.)
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	CTS no.160A/1 (PT) & 162(PT) of village Majas part-1,163 (pt),165 (pt),170 (pt), & 170(c) of village Majas part -3 at Sarvodaya Nagar Mhada layout, sarvodaya Nagar ,Jogeshwari (East),Mumbai 400060.
9.Taluka	Jogeshwari
10.Village	Majas
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Sale IOD: CHE/WS/0284/K/337 dtd 20th April 2016 ; MHADA/REHAB IOD: CHE/WS/0282/K/337 dtd 29th March 2016
	IOD/IOA/Concession/Plan Approval Number: Sale IOD: CHE/WS/0284/K/337 dtd 20th April 2016; MHADA/REHAB IOD: CHE/WS/0282/K/337 dtd 29th March 2016
	Approved Built-up Area: 259575.69
13.Note on the initiated work (If applicable)	The construction work done so far is 3,739.44 Sq.mt. for Rehab component and excavation work for sale wing as per previous EC vide no. SEAC 2011/CR-72/TC-2 on 17th January 2013.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NOC from MHADA: 28th March 2014
15.Total Plot Area (sq. m.)	35173.44 sqm
16.Deductions	2198.33 sqm
17.Net Plot area	32975.11 sqm
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 134412.93 Sq.m. (Sale – 86,923.02 Sq.m. Rehab / MHADA – Residential -45,277.81 Commercial -2,212.1)
	b) Non FSI area (sq. m.): 125162.76
	c) Total BUA area (sq. m.): 259575.69
19.Total ground coverage (m2)	17829
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	53.78 %
21.Estimated cost of the project	5600000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sale - 1 No. with 6 nos. of wings.	2B +LG+GR.+2P+26 Floors	97.10 max.
2	Rehab /MHADA Building No1	GR. +2P+ 20 Floors.	69.45
3	Rehab /MHADA Building No2	Stilt +3P +19th Floors	69.2

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4	Rehab /MHADA Building No4	G + 22nd Floors	69.2
5	NA	NA	NA

23.Number of tenants and shops	Sale Buildings - 954 Nos. Rehab /MHADA Buildings – 732 No's Total : 1686 no's
24.Number of expected residents / users	Sale Buildings - 4770 Nos. ; Rehab /MHADA Buildings – 3255 No's; Total - 8025 Nos.
25.Tenant density per hectare	479.38 tenements/hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 m wide DP road ;13.40 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	>7.5 m
29.Existing structure (s) if any	Demolition has been done as per previous EC (dtd 17th January 2013). Existing structures were MHADA tenants.
30.Details of the demolition with disposal (If applicable)	1800 Cum Bricks Shall be sold to authorized Recycler ; 40Cum of Asbestos Disposal as per CHWTSDF norms. ; 100Cum of Scrap metal Disposal as per CHWTSDF norms

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 / Recycled water
	Fresh water (CMD):	703
	Recycled water - Flushing (CMD):	355.6
	Recycled water - Gardening (CMD):	58
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1116.3
	Fire fighting - Underground water tank(CMD):	AS PER CFO NOC
	Fire fighting - Overhead water tank(CMD):	AS PER CFO NOC
	Excess treated water	462.175

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Wet season:	**Source of water**	MCGM / Recycled water/ RWH
	Fresh water (CMD):	522.3(MCGM) + 181(RWH)
	Recycled water - Flushing (CMD):	355.6
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	935.3
	Fire fighting - Underground water tank(CMD):	AS PER CFO NOC
	Fire fighting - Overhead water tank(CMD):	AS PER CFO NOC
	Excess treated water	519.575
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.00 m to 7.60 m
	Size and no of RWH tank(s) and Quantity:	Nos of RWH : 6 no's for Sale & 3 Nos. for Rehab.; Capacity For Sale: 72 cum/Day ; For Rehab: 109 cum/Day
	Location of the RWH tank(s):	Upper ground floor
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	30.00 lakhs
	Budgetary allocation (O & M cost) :	3.00 lakhs/yr.
	Details of UGT tanks if any :	Sale: Location(s) of the UGT tank(s)- Lower ground floor Rehab: Location(s) of the UGT tank(s)- Upper Ground Floor Plan

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35.Storm water drainage	**Natural water drainage pattern:**	Natural slope Towards North – west
	Quantity of storm water:	1.247 m3/sec.
	Size of SWD:	Storm water drain channel of 450 mm 600 mm and 300 mm width (total 7 outfalls connected to municipal drains)
Sewage and Waste water	**Sewage generation in KLD:**	965
	STP technology:	MBBR
	Capacity of STP (CMD):	965 cum. (5 nos. 2 x 270 KLD, 210 KLD, 140 KLD and 75 KLD)
	Location & area of the STP:	TOTAL STP AREA OF SALE & REHAB IS 1220 SQM . STP Located on Lower Ground Floor plan for Sale Building. STP Located on Ground Floor Plan for MHADA/Rehab Building No1 and 4
	Budgetary allocation (Capital cost):	120.00 lakhs
	Budgetary allocation (O & M cost):	15.00 lakhs/yr

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	• Quantity of the top soil to be preserved:- Excavation Quantity: The Excavation Quantity of 49,000 cum has been already transported as per the debris management plan, it is estimated that 27,000 cum quantity has to be excavated yet. 10 % for top soil preservation. 20 % will be used for backfilling.
	Disposal of the construction waste debris:	1800 Cum Bricks Shall be sold to authorized Recycler ; 40Cum of Asbestos Disposal as per CHWTSDF norms. ; 100Cum of Scrap metal Disposal as per CHWTSDF norms
Waste generation in the operation Phase:	**Dry waste:**	1578
	Wet waste:	2367
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	70
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Collected by recyclers
	Wet waste:	Utilized as manure through Organic Waste composting machine.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	70
	Others if any:	NA

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Area requirement:	**Location(s):**	For Sale : On Upper Ground Floor plan ; For Rehab/MHADA Building No. 1: Ground Level ; For Rehab/MHADA Building No. 4 : 2nd Podium Level ;
	Area for the storage of waste & other material:	Sale : AREA REQUIRED FOR STORAGE is 84.9sq.m. ; MHADA/Rehab : AREA REQUIRED FOR STORAGE is 58.3sqm
	Area for machinery:	Area requirement For OWC Machine only for Sale Building: For OWC 500 : 2.78 sqm; Area requirement for MHADA/Rehab Building for OWC machine only : For OWC 300 : 2.77 Sq.mt..
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	40.00 Lakhs
	O & M cost:	6.00 Lakhs/yr.

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

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43.Green Belt Development	**Total RG area :**	RG on Ground =8310.9 Sq.m ; RG on podium=3041 Sq.m ;Total RG Area Proposed =11351.9sqm.
	No of trees to be cut :	55 Nos.
	Number of trees to be planted :	165 Nos.
	List of proposed native trees :	As mentioned in the List of proposed plantation on ground
	Timeline for completion of plantation :	At the time of completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	ficus retusa	Nandruk	10	NA
2	Azadirachta indica	Neem	11	NA
3	Erythrina variegata	Pangara	7	NA
4	Tamarandus indicum	Ambli	12	NA
5	Mangifera indica	Aam	19	NA
6	Putranjiva roxburghii	Putranjiva	15	NA
7	Pongamia pinnata	Karanj	11	NA
8	Syzigium cumini	Jamun	10	NA
9	Alstonia scholaris	Satwin	15	NA
10	Cassia fistula	Bahava	10	NA
11	Terminalia cattapa	Badam	15	NA
12	Saraca asoka	Sita ashok	15	NA
13	Cocus nucifera	Nariyal	15	NA
14	Total	NA	165	NA
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	80 kVA
	During Operation phase (Connected load):	Sale : 17,114.88 KW ; MHADA / Rehab Buildings : 15,113.75KW
	During Operation phase (Demand load):	Sale : 7,339.59 KW ; MHADA / Rehab Buildings : 5,344.17 KW
	Transformer:	02nos. 33/11KV Power Transformers (20MVA each)
	DG set as Power back-up during operation phase:	Sale : 2 x 750 KVA ; MHADA / Rehab Buildings : 1 x 400 KVA for blg.no.1, 1 x 750 KVA for building no.4, 1 x 500 KVA for Building no.2
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Description Percentage of Energy saving

Total Energy Saving in% 20%
% of renewable w.r.t to energy consumed 10%
% of renewable w.r.t to energy saving 50%
Energy saved per year in kW (lac Units) – 8.741

Energy saving measures;
Energy saving can be achieved by;
1. Use of Energy efficient lighting system
2. Use of LED/T5
3. Use of energy efficient motors and drives
4. Use of Solar roof top PV panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	As mentioned above	As mentioned above

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:**	152 lakhs
	O & M cost:	7 lakhs/yr.

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

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1	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	15
2	Noise Environment	Noise Baricades and Green Belt Developments	12
3	Water Environment	Modular STP , Drainage with sedimentation tanks	6
4	Good Health Practices	Site Sanitation & Health Care	10
5	Environment Monitoring	Air,water,noise soil monitoring during construction phase	5
6	TOTAL	Total	48

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Solid Waste Management	OWC	40	6
2	Water Environment	STP	120.0	15
3	Energy	Energy	152	7
4	Water Environment	RWH system	30	3
5	Landscaping	Landscaping	35	5.25
6	DMP	DMP	192.1	55.25
7	Total	Total	569	91.25

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Existing 18.30 m wide DP road

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Parking details:	**Number and area of basement:**	Sale : 2 Nos. of Basements of area 19298.25 Sq.m.
	Number and area of podia:	Sale : Area of 2 podiums=18857.68 sqm.; For Rehab : Total parking area of podiums + ground floor =15024 sqm
	Total Parking area:	FOR SALE- Number & area of basements=19298 sqm, Area of lower ground=9946 sqm, Area of ground=9946 sqm, Area of 2 podiums=18857.68 sqm.; For Rehab : Total parking area of podiums + ground floor =15024 sqm
	Area per car:	Area per car For Sale : 32.64 sqm; Area per car for Rehab/MHADA : 34.57 sqm
	Area per car:	Area per car For Sale : 32.64 sqm; Area per car for Rehab/MHADA : 34.57 sqm
	Number of 2-Wheelers as approved by competent authority:	As per approval
	Number of 4-Wheelers as approved by competent authority:	Total Proposed Parking = 2252 no's (Sale- PROV-1679 no's and MHADA/Rehab - Prov573 Nos)
	Public Transport:	NA
	Width of all Internal roads (m):	Min 7.5 m wide drive ways
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(b) B1
	Court cases pending if any	NA
	Other Relevant Informations	This is to inform you that the project ''ACME BOULEVARD'' - Proposed Redevelopment Project by M/s. Acme Realties Pvt. Ltd. was earlier presented in the 50th meeting of SEAC II as Item No. 06., and after deliberation, was appraised and recommended to SEIAA.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

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Minutes of 50th SEAC-2 meeting :

Representative of PP, Shri Munish Doshi & Architect Mr H M Jhaveri were present during the meeting along with environmental consultant M/s EAEPL. PP informed that they have received IOD on –15th Nov 2010, 8th Feb 2011, 29th March 2014, and 29th March 2016 Rehab & Sale component respectively.

PP informed that they have received earlier EC vide letter dated 17/01/2013 for total construction area of 1,34,021 m2. PP informed that they have completed construction admeasuring 3739.44 m2 as per EC.

Committee noted comparative changes due to proposed expansion/amendment.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that project was earlier considered in 37th SEAC II Meeting in which ToR was issued. PP submitted EIA report. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 35,173.44 m2 & total construction area of the project is 2,59,575.69 m2. Committee noted that the project under 8a (B1) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

During discussion following points emerged:

1. PP submitted compliance report with comparative statements of conditions stipulated in earlier EC.

2. PP to submit concession obtained from Municipal Commissioner for increasing height from 45 m to 97.10 m on the road width of 18.30 m.

3. PP to submit HRC permission for proposed building height of 97.10 m.

4. Nallah diversion should be done only as per the conditions stipulated by the MCGM. Design parameters such as rainfall intensity, return period to be considered for the design fixed by MCGM.

5. PP to ensure that nallah not to be covered.

6. Proper design of storm water drainage considering all phases in the entire project area should be done to ensure that it should not overload outside storm water drain & submit along with storm water drainage calculations.

7. PP to revise project specific DMP giving details of rescue plans in case of disasters. It's costing may also be include into the overall DMP costing & item wise details may be shown.

8. PP to provide air cleaning system in basement.

9. PP, if applicable, to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

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

Specific Conditions by SEAC:

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SEIAA DECISION

Approved

Specific Conditions by SEIAA:

FINAL RECOMMENDATION

SEIAA have decided to grant the proposal for Prior Environmental Clearance subject to above conditions

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