54th SEAC-II Meeting Day-2 (4/7/2017)

SEAC Meeting number: 54 **Meeting Date** July 4, 2017

Subject: Environment Clearance for EWS Mass Housing Scheme Survey .no.80, 81 Bandarli, Tal-Thane

General Information:

1.Name of Project	Proposed EWS Mass Housing Scheme Survey .no.80, 81 Bandarli, Tal-Thane, Maharashtra (Phase I)
2.Type of institution	Government
3.Name of Project Proponent	Kokan Housing and Area Development Board (MHADA)
4.Name of Consultant	Fine Envirotech engineers
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey .no.80, 81 Bandarli, Tal-Thane
9.Taluka	Thane
10.Village	Bandarli
11.Area of the project	other area
12.IOD/IOA/Concession/Plan Approval Number	Not received yet
	IOD/IOA/Concession/Plan Approval Number: Not received yet
	Approved Built-up Area: 34522
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	13809 sq.m.
16.Deductions	2002.3 sq.m.
17.Net Plot area	11806.70 sq.m.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 21629.60
	b) Non FSI area (sq. m.): 3451.15
	c) Total BUA area (sq. m.): 25080.75
19.Total ground coverage (m2)	1855.13
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	13.43
21.Estimated cost of the project	319457406

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	3	G+15	45.8m

23.Number of tenants and shops	541
24.Number of expected residents / users	2755
25.Tenant density per hectare	250
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9m

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	15m
29.Existing structure (s) if any	no
30.Details of the demolition with disposal (If applicable)	no

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	CIDCO
	Fresh water (CMD):	243KLD
	Recycled water - Flushing (CMD):	122 KLD
	Recycled water - Gardening (CMD):	10 KLD
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	365 KLD
	Fire fighting - Underground water tank(CMD):	150 cubic meter
	Fire fighting - Overhead water tank(CMD):	25 cubic meter
	Excess treated water	160 KLD
Wet season:	**Source of water**	CIDCO
	Fresh water (CMD):	243KLD
	Recycled water - Flushing (CMD):	122 KLD
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	355 KLD
	Fire fighting - Underground water tank(CMD):	150 cubic meter
	Fire fighting - Overhead water tank(CMD):	25 cubic meter
	Excess treated water	170 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:**	plan will be provided
	Size and no of RWH tank(s) and Quantity:	plan will be provided
	Location of the RWH tank(s):	plan will be provided
	Quantity of recharge pits:	plan will be provided
	Size of recharge pits :	plan will be provided
	Budgetary allocation (Capital cost) :	plan will be provided
	Budgetary allocation (O & M cost) :	plan will be provided
	Details of UGT tanks if any :	10 nos
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	proper strom water plan will be provided
	Size of SWD:	proper strom water plan will be provided
Sewage and Waste water	**Sewage generation in KLD:**	292.14KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	300 KLD
	Location & area of the STP:	Ground, area- 350 sq.m
	Budgetary allocation (Capital cost):	40 lakh
	Budgetary allocation (O & M cost):	7 lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	includes preconstruction debris and excavated material
	Disposal of the construction waste debris:	Waste includes debris materials (rubble & soil). Part of the soil will be used for leveling if suitable and other waste will be disposed off with authorized contractor.
Waste generation in the operation Phase:	**Dry waste:**	514 kg/day
	Wet waste:	811.5 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	14.6 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handed over to â??Authorized recycler
	Wet waste:	Wet waste will be processed in the OWC and manure will use for gardening purpose
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	manure will be used for gardening whereas other will be given to authorized agencies
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	120 sq m
	Area for machinery:	30 sq m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	3000000
	O & M cost:	600000

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 :**	2033.20 sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	173
	List of proposed native trees :	Mimusops elengi , Pongamia pinnata , Azadiracta indica Magnifera indica , Anthocephalus cadamba
	Timeline for completion of plantation :	one year from the grant of EC

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mimusops elengi	Bakul	25	Shady tree, small white fragrant flowers
2	Pongamia pinnata	Karanj	20	Shady tree.
3	Azadiracta indica	Neem	20	Large tree, good for roadside plantation
4	Magnifera indica	Mango	20	Fruit bearing tree, Bird attracting
5	Anthocephalus cadamba	Kadam	25	Shady, large tree, ball shaped flowers
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	150 kW
	DG set as Power back-up during construction phase	150 KVA
	During Operation phase (Connected load):	1619.8 kW
	During Operation phase (Demand load):	971.9 kW
	Transformer:	--
	DG set as Power back-up during operation phase:	150 KVA X 2 Nos
	Fuel used:	Diesel
	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	stand alone solar lights	100

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:**	24 lakh
	O & M cost:	3.5 lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Site Safety	Barricading & Dust Suppression etc	3
2	Environmental Monitoring	Air, Noise, Water, Biological	3
3	Sanitary Facility and Waste Water Management etc	--	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	Environmental Monitoring	Air, Noise, Water, Biological etc.	--	3
2	Rain Water Harvesting System	Overhead tank, recharge pits etc.	10	0.75
3	Solid Waste Management	--	10	4
4	Green Belt Development	plantation	10	3
5	Cost for DMP (capital and recurring)	--	30	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:	separate exit and entry will be provided

Parking details:	**Number and area of basement:**	--
	Number and area of podia:	NA
	Total Parking area:	--
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	546
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	9m to 15m
	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	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

PP, Mr. Vijay Lahane Chief Officer, Konkan Housing and Area Development Board, MHADA & Shri. B S Walekar, EE, were present during the meeting along with environmental consultant M/s Fine Envirotech Engineers.

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 52nd 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 the proposal is for EWS Mass Housing Scheme with total BUA (FSI- 21795.56 Sq.mt + Non FSI- 1368.62 sq.mt) 23164.18 sq.mt. It is noted that in Consolidated Statement it was mentioned as Non FSI area-3451.15 sq.m, FSI area- 21629.60sq.m and Total Built up Area 25080.75 sq.mt respectively. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Compliance, Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Committee noted that there are drastic changes in area statement; therefore PP to Upload corrected Area statement.
2) PP to upload layout plan submitted to local body as per revised area statement with acknowledgement receipt.
3) PP to upload all layout plans on MPCB website for Green belt, Sewerage, Strom water drains, Parking, Fire tender movement.
4) PP to upload detail calculations for RG area, Parking area, Sewerage design, Strom water drainage.

FINAL RECOMMENDATION

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

SEAC Meeting number: 54 **Meeting Date** July 4, 2017

Subject: Environment Clearance for Proposed ESW Mass housing Scheme S. No. 86,95,133 Shirdhon, Taluka Kalyan (Phase I)

General Information:

1.Name of Project	Proposed ESW Mass housing Scheme S. No. 86,95,133 Shirdhon, Taluka Kalyan (Phase I)
2.Type of institution	Government
3.Name of Project Proponent	Shri. Pradip Sahadeo Savant
4.Name of Consultant	Fine Envirotech Engineers
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	Survey No. 86,95,133
9.Taluka	Kalyan
10.Village	Shirdhon
11.Area of the project	Other area
12.IOD/IOA/Concession/Plan Approval Number	Application has been made
	IOD/IOA/Concession/Plan Approval Number: Application has been made
	Approved Built-up Area: 98166.16
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	---
15.Total Plot Area (sq. m.)	393600
16.Deductions	104151.18
17.Net Plot area	289448.82
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 98166.16
	b) Non FSI area (sq. m.): 30807.69
	c) Total BUA area (sq. m.): 128973.85
19.Total ground coverage (m2)	18109.97
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	6.26
21.Estimated cost of the project	15346422000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	29	G+7	24

23.Number of tenants and shops	29
24.Number of expected residents / users	2755
25.Tenant density per hectare	95
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18 m

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Not Applicable
30.Details of the demolition with disposal (If applicable)	Solid waste generation during construction phase is debris materials (rubble & soil). Part of the soil will be used for leveling if suitable and other waste will be disposed off with authorized contractor as per rules and debris management.

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**	CIDCO
	Fresh water (CMD):	1239.75
	Recycled water - Flushing (CMD):	619.88
	Recycled water - Gardening (CMD):	160.13
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	2020
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	558.3
Wet season:	**Source of water**	CIDCO
	Fresh water (CMD):	1239.75
	Recycled water - Flushing (CMD):	619.88
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	1400.12
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	25
	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	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:**	Plan Will Be Provided
	Size and no of RWH tank(s) and Quantity:	Plan Will Be Provided
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	Plan Will Be Provided
	Size of recharge pits :	Plan Will Be Provided
	Budgetary allocation (Capital cost) :	Plan Will Be Provided
	Budgetary allocation (O & M cost) :	Plan Will Be Provided
	Details of UGT tanks if any :	Plan Will Be Provided
35.Storm water drainage	**Natural water drainage pattern:**	Proper strom water plan will be provided
	Quantity of storm water:	Proper strom water plan will be provided
	Size of SWD:	---
Sewage and Waste water	**Sewage generation in KLD:**	1487.7
	STP technology:	MBBR
	Capacity of STP (CMD):	1500
	Location & area of the STP:	Location- Ground, Area - 7350 sq.m.
	Budgetary allocation (Capital cost):	180 lakh
	Budgetary allocation (O & M cost):	15 lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Includes preconstruction debris and excavated material
	Disposal of the construction waste debris:	Biodegradable waste will be processed in the OWC for manure gardening. The non Biodegradable waste will be handed over to Authorised agency for recycling. The sludge generated will be use as manure for gardening
Waste generation in the operation Phase:	**Dry waste:**	2755 kg/day
	Wet waste:	4132.5 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	74.385 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handed over to authorized facility for recycling
	Wet waste:	Biodegradable waste will be processed in the OWC for manure gardening. The non Biodegradable waste will be handed over to Authorised agency for recycling. The sludge generated will be use as manure for gardening
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	The sludge generated will be use as manure.
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	120 sq.m.
	Area for machinery:	120 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	3000000
	O & M cost:	600000

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 :**	32026.96 sq.m.
	No of trees to be cut :	No
	Number of trees to be planted :	1300
	List of proposed native trees :	Pongamia pinnata, Mimusops elengi , Azadiracta indica ,Magnifera indica
	Timeline for completion of plantation :	1 year from grant of EC

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Pongamia pinnata	Karanj	216	Shady Tree
2	Mimusops elengi	Bakul	216	Large Tree Good for Roadside Plantation
3	Azadiracta indica	Neem	216	Medicinal Important tree, Shady in nature
4	Magnifera indica	Mango	216	Fruit Bearing and bird attracting
5	Cassia fistula	Bahava	216	Medium Sized deciduous tree, Beutiful yellow flowers, butterfly host plant
6	Anthocephalus cadamba	Kadam	220	Shady large tree, ball shaped flowers
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	150 kW
	DG set as Power back-up during construction phase	380 kW
	During Operation phase (Connected load):	774.42 kW
	During Operation phase (Demand load):	387.08 kW
	Transformer:	---
	DG set as Power back-up during operation phase:	380 kVA &120 kVAx4
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

150 stand alone solar lights

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
Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	48 lakhs
	O & M cost:	5 lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Site Safety	Barricading & Dust Suppression etc	5
2	Environmental Monitoring	Air, Noise, Water, Biological	4
3	Sanitary Facility and Waste Water Management etc	---	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	Environmental Monitoring	Air, Noise, Water, Biological etc	---	3
2	Rain Water Harvesting System	overhead tanks, recharge pits etc	15	0.75
3	Solid Waste Management	Collection and disposal of solid waste	10	4
4	Green Belt Development	Plantation	15	4
5	Occupational Health & Safety Training	supply of safety items, sinages etc	---	3
6	Cost for DMP (capital and recurring)	Disaster Management	30	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:	separate exit and entry will be provided

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	2800
	Number of 4-Wheelers as approved by competent authority:	00
	Public Transport:	00
	Width of all Internal roads (m):	15 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	NA
	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

PP, Mr. Vijay Lahane Chief Officer, Konkan Housing and Area Development Board, MHADA & Shri. B S Walekar, EE, were present during the meeting along with environmental consultant M/s Fine Envirotech Engineers.

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 52nd 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 the proposal is for EWS Mass Housing Scheme with total BUA (FSI- 139096.52Sq.mt + Non FSI- 7625.14 sq.mt) 146721.66 sq.mt. It is noted that in Consolidated Statement it was mentioned as Non FSI area- 30807.69sq.m, FSI area- 98166.16 sq.m and Total Built up Area 128973.85 sq.mt respectively. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Compliance, Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Committee noted that there are drastic changes in area statement; therefore PP to Upload corrected Area statement.
2) It is noted that, there are 12,000 tenants proposed in the first phase. Therefore, it is recommended that community hall, school, nursing home and convenient shopping etc should be provided. Accordingly PP to submit & upload undertaking to provide requisite amenity space and to develop the said amenities.
3) PP to upload layout plan submitted to local body as per revised area statement with acknowledgement receipt.
4) PP to upload all layout plans on MPCB website for Green belt, Sewerage, Storm water drains, Parking, Fire tender movement.
5) PP to upload detail calculations for RG area, Parking area, Sewerage design, Storm water drainage.

FINAL RECOMMENDATION

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

SEAC Meeting number: 54 **Meeting Date** July 4, 2017

Subject: Environment Clearance for EWS Mass Housing Scheme at S. No. 157/1, Gotheghar, Tal-Thane, Maharashtra (Phase I)

General Information:

1.Name of Project	Proposed EWS Mass Housing Scheme at S. No. 157/1, Gotheghar, Tal-Thane, Maharashtra (Phase I)
2.Type of institution	Government
3.Name of Project Proponent	Kokan Housing and Area Development Board (MHADA)
4.Name of Consultant	Fine Envirotech Engineers
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 157/1
9.Taluka	Thane
10.Village	Gotheghar
11.Area of the project	other area
12.IOD/IOA/Concession/Plan Approval Number	Not received yet
	IOD/IOA/Concession/Plan Approval Number: Not received yet
	Approved Built-up Area: 69318.72
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	73325 sq. m.
16.Deductions	13931 sq.m.
17.Net Plot area	59393 sq.m.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 69318.71 sq. q
	b) Non FSI area (sq. m.): 10365.45 sq. m.
	c) Total BUA area (sq. m.): 79684.17 sq. m.
19.Total ground coverage (m2)	6101.37 sq. m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	8.32
21.Estimated cost of the project	1696300550

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	9	G + 15	45.8

23.Number of tenants and shops	1719 tenants and 24 shops
24.Number of expected residents / users	8595
25.Tenant density per hectare	240
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9m

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	13 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**	MIDC
	Fresh water (CMD):	774.51 KLD
	Recycled water - Flushing (CMD):	388 KLD
	Recycled water - Gardening (CMD):	35 KLD
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1196.94 KLD
	Fire fighting - Underground water tank(CMD):	150 cubic meter
	Fire fighting - Overhead water tank(CMD):	25 cubic meter
	Excess treated water	507
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	774.51 KLD
	Recycled water - Flushing (CMD):	388 KLD
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1162.48 KLD
	Fire fighting - Underground water tank(CMD):	150 cubic meter
	Fire fighting - Overhead water tank(CMD):	25 cubic meter
	Excess treated water	542
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:**	plan will be provided
	Size and no of RWH tank(s) and Quantity:	plan will be provided
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	plan will be provided
	Size of recharge pits :	plan will be provided
	Budgetary allocation (Capital cost) :	plan will be provided
	Budgetary allocation (O & M cost) :	plan will be provided
	Details of UGT tanks if any :	plan will be provided
35.Storm water drainage	**Natural water drainage pattern:**	proper strom water plan will be provided
	Quantity of storm water:	proper strom water plan will be provided
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	930
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of 950 KLD capacity
	Location & area of the STP:	Location- Ground, area- 1000 sq. m.
	Budgetary allocation (Capital cost):	120 lakh
	Budgetary allocation (O & M cost):	10 lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	includes preconstruction debris and excavated material
	Disposal of the construction waste debris:	Waste includes debris materials (rubble & soil). Part of the soil will be used for leveling if suitable and other waste will be disposed off with authorized contractor as per rules and debris management.
Waste generation in the operation Phase:	**Dry waste:**	1728.6 kg/day, Recyclable: Paper, bottles, glass, note books, safety pins, caps of mineral water bottles etc
	Wet waste:	2583.3 kg/day, Organic: Tea Leaves, Eggshells, Old Food and Vegetables peels.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	47 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handed over to authorized facility for recycling
	Wet waste:	wet waste will be process in the Mechanical Composter and manure will be used for gardening
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	The sludge generated will be use as manure.
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	120 sq m
	Area for machinery:	50 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	3000000
	O & M cost:	600000

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 :**	6891.90 sq.m.
	No of trees to be cut :	no
	Number of trees to be planted :	916
	List of proposed native trees :	Pongamia pinnata, Mimusops elengi , Azadiracta indica ,Magnifera indica
	Timeline for completion of plantation :	1 year from grant of EC

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Pongamia pinnata	Karanj	20	Shady tree.
2	Mimusops elengi	Neem	20	Large tree, good for roadside
3	Magnifera indica	Mango	30	Fruit bearing tree, Bird attracting
4	Cassia fistula	Bhava	50	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
5	Anthocephalus cadamba	Kadam	20	Shady, large tree, ball shaped flowers
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	150 kW
	DG set as Power back-up during construction phase	380 kv
	During Operation phase (Connected load):	5146.3 kW
	During Operation phase (Demand load):	3087.8 kW
	Transformer:	--
	DG set as Power back-up during operation phase:	2 DG sets of 120 kva capacity
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

100 stand alone solar lights

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

Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	30 lakh
	O & M cost:	3 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	Site Safety	Barricading & Dust Suppression etc	4
2	Environmental Monitoring	Air, Noise, Water, Biological etc	4
3	Sanitary Facility and Waste Water Management	--	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	Environmental Monitoring	Air, Noise, Water, Biological etc	--	3
2	Rain Water Harvesting System	overhead tanks, recharge pits etc	12	0.75
3	Solid Waste Management	Collection and disposal of solid waste	10	4
4	Green Belt Development	Plantation	12	4
5	Occupational Health & Safety Training	supply of safety items, sinages etc	--	3
6	Cost for DMP (capital and recurring)	Disaster management	30	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:	separate exit and entry will be provided

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	NA
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	1729
	Number of 4-Wheelers as approved by competent authority:	00
	Public Transport:	00
	Width of all Internal roads (m):	15 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	NA
	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

PP, Mr. Vijay Lahane Chief Officer, Konkan Housing and Area Development Board, MHADA & Shri. B S Walekar, EE, were present during the meeting along with environmental consultant M/s Fine Envirotech Engineers.

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 52nd 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 the proposal is for EWS Mass Housing Scheme with total BUA (FSI- 1,07,452.80Sq.mt + Non FSI- 6102.60 sq.mt) 113555.40 sq.mt. It is noted that in Consolidated Statement it was mentioned as Non FSI area- 10365.45 sq.m, FSI area- 69318.71 sq.m and Total Built up Area 79,684.16 sq.mt respectively. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Compliance, Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Committee noted that there are drastic changes in area statement; therefore PP to Upload corrected Area statement.
2) PP to upload layout plan submitted to local body as per revised area statement with acknowledgement receipt
3) PP to upload all layout plans on ECMPCB website for Green belt, Sewerage, Storm water drains, Parking, Fire tender movement.
4) PP to upload detail calculations for RG area, Parking area, Sewerage design, Strom water drainage.
5) PP to submit & upload undertaking to provide requisite amenity space and to develop the said amenities.

FINAL RECOMMENDATION

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

SEAC Meeting number: 54 **Meeting Date** July 4, 2017

Subject: Environment Clearance for EWS Mass Housing Scheme at S.No. 13 Bhandarli,Tal-Thane (Phase –I)

General Information:

1.Name of Project	EWS Mass Housing Scheme at S.No. 13 Bhandarli,Tal-Thane (Phase –I)
2.Type of institution	Government
3.Name of Project Proponent	Kokan Housing and Area Development Board (MHADA)
4.Name of Consultant	Fine Envirotech Engineers
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 13 Bhandarli,Tal-Thane
9.Taluka	Thane
10.Village	Bhandarli
11.Area of the project	other area
12.IOD/IOA/Concession/Plan Approval Number	Not received yet
	IOD/IOA/Concession/Plan Approval Number: Not received yet
	Approved Built-up Area: 81837.5
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.)	32735 sq.m.
16.Deductions	7692.72 sq.m.
17.Net Plot area	25042.28 sq.m.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 69030.72
	b) Non FSI area (sq. m.): 10653.45
	c) Total BUA area (sq. m.): 79684.17
19.Total ground coverage (m2)	5801.37
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	11.16
21.Estimated cost of the project	1596956676

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	9 nos	G + 15	46.8

23.Number of tenants and shops	tenants; 1719
24.Number of expected residents / users	8595
25.Tenant density per hectare	249
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 m

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	15m
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**	CIDCO
	Fresh water (CMD):	773 KLD
	Recycled water - Flushing (CMD):	387 KLD
	Recycled water - Gardening (CMD):	25 KLD
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1160 KLD
	Fire fighting - Underground water tank(CMD):	150 cubic meter
	Fire fighting - Overhead water tank(CMD):	25 cubic meter
	Excess treated water	516 KLD
Wet season:	**Source of water**	CIDCO
	Fresh water (CMD):	773 KLD
	Recycled water - Flushing (CMD):	387 KLD
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1160 KLD
	Fire fighting - Underground water tank(CMD):	150 cubic meter
	Fire fighting - Overhead water tank(CMD):	25 cubic meter
	Excess treated water	541 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	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:**	plan will be provided
	Size and no of RWH tank(s) and Quantity:	plan will be provided
	Location of the RWH tank(s):	plan will be provided
	Quantity of recharge pits:	plan will be provided
	Size of recharge pits :	plan will be provided
	Budgetary allocation (Capital cost) :	plan will be provided
	Budgetary allocation (O & M cost) :	plan will be provided
	Details of UGT tanks if any :	plan will be provided
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	proper strom water plan will be provided
	Size of SWD:	--
Sewage and Waste water	**Sewage generation in KLD:**	928 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of 950 KLD capasity
	Location & area of the STP:	location- ground, Area 1000 sq.m
	Budgetary allocation (Capital cost):	120 lakh
	Budgetary allocation (O & M cost):	10 lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	includes preconstruction debris and excavated material
	Disposal of the construction waste debris:	Waste includes debris materials (rubble & soil). Part of the soil will be used for leveling if suitable and other waste will be disposed off with authorized contractor as per rules and debris management
Waste generation in the operation Phase:	**Dry waste:**	1719.0 kg/day
	Wet waste:	2578.5 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	47kg/Day ,
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handed over to –Authorized recycler
	Wet waste:	Wet waste will be processed in the OWC for manure gardening
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	The sludge generated will be use as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	120 sq m
	Area for machinery:	30 sq m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	3000000
	O & M cost:	600000

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 :**	4934.03 sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	410 nos
	List of proposed native trees :	Mimusops elengi , Pongamia pinnata , Azadiracta indica Magnifera indica , Anthocephalus cadamba
	Timeline for completion of plantation :	one year from grant of the EC

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Pongamia pinnata	Karanj	20	Shady tree.
2	Mimusops elengi	Bakul	25	Shady tree, small white fragrant flowers
3	Azadiracta indica	Neem	20	Large tree, good for roadside plantation
4	Magnifera indica	Mango	20	Fruit bearing tree, Bird attracting
5	Anthocephalus cadamba	Kadam	25	Shady, large tree, ball shaped flowers
45.Total quantity of plants on ground				

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

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

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	380 Kva
	During Operation phase (Connected load):	5146.3 kW
	During Operation phase (Demand load):	3087 kW
	Transformer:	--
	DG set as Power back-up during operation phase:	2 DG sets of 120 Kva
	Fuel used:	Diesel
	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	stand alone solar lights	100

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:**	24 lakh
	O & M cost:	3.5 lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Site Safety	Barricading & Dust Suppression etc	4
2	Environmental Monitoring	Air, Noise, Water, Biological	4
3	Sanitary Facility and Waste Water Management etc	--	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	Environmental Monitoring	Air, Noise, Water, Biological etc.	--	3
2	Rain Water Harvesting System	Overhead tank, recharge pits etc.	15	0.75
3	Solid Waste Management	--	10	4
4	Green Belt Development	plantation	15	4
5	Occupational Health & Safety Training	--	--	3
6	Cost for DMP (capital and recurring)	--	30	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:	separate exit and entry will be provided

Parking details:	**Number and area of basement:**	--
	Number and area of podia:	NA
	Total Parking area:	--
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	1729
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	--
	Width of all Internal roads (m):	9 to 15 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	8 b
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

PP, Mr. Vijay Lahane, Chief Officer, Konkan Housing and Area Development Board, MHADA & Shri. B S Walekar, EE, were present during the meeting along with environmental consultant M/s Fine Envirotech Engineers.

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 52nd 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 52000 sq.mt, after deduction Net Plot area is 25042.28 sq.mt.

Further, PP stated that the proposal is for EWS Mass Housing Scheme with total BUA (FSI- 81192.91Sq.mt + Non FSI-9506.89 sq.mt) 90699.80 sq.mt. It is noted that in Consolidated Statement it was mentioned as Non FSI area-69030.72 sq.m, FSI area- 10653.45 sq.m and Total Built up Area 79684.17 sq.mt respectively. Committee noted that the project under 8a (B2) category of EIA Notification, 2006. Compliance, Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Committee noted that there are drastic changes in area statement; therefore PP to Upload corrected Area statement.
2) PP to upload layout plan submitted to local body as per revised area statement with acknowledgement receipt.
3) PP to upload all layout plans on ECMPCB website for Green belt, Sewerage, Storm water drains, Parking, Fire tender movement.
4) PP to upload detail calculations for RG area, Parking area, Sewerage design, Storm water drainage.

FINAL RECOMMENDATION

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

SEAC Meeting number: 54 **Meeting Date** July 4, 2017

Subject: Environment Clearance for EWS MASS HOUSING SCHEME UNDER PRIME MINISTER HOUSING SCHEME

General Information:

1.Name of Project	Proposed Development of EWS Mass Housing Scheme (Phase 1) at S.No. 162, Khoni, Kalyan
2.Type of institution	Government
3.Name of Project Proponent	Konkan Housing and Area Development Board
4.Name of Consultant	M/s. Fine Envirotech Engineers
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	Survey No.162
9.Taluka	Kalyan
10.Village	Khoni
11.Area of the project	Other area - Thane Collector
12.IOD/IOA/Concession/Plan Approval Number	Not received
	IOD/IOA/Concession/Plan Approval Number: Not received
	Approved Built-up Area: 123537.28
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.)	171000 sq.mt.
16.Deductions	67509.05 sq.mt
17.Net Plot area	103490.95 sq.mt
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 123537.28 sq.mt
	b) Non FSI area (sq. m.): 19056.80 sq.mt
	c) Total BUA area (sq. m.): 142594.08 sq.mt
19.Total ground coverage (m2)	12086.88 sq.mt
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	7.07%
21.Estimated cost of the project	3150000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	EWS Buildings (16 Nos.)	Ground +15	44.77 m
2	Commercial (Shops) Building (2 Nos.)	Ground	3.65 m

23.Number of tenants and shops	Tenements - 3056 nos. and Shops -34 nos.
24.Number of expected residents / users	Residents - 15280 nos. and Shops user-102 nos.
25.Tenant density per hectare	247
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	100 m

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m, 12m, 15m
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	1377
	Recycled water - Flushing (CMD):	690
	Recycled water - Gardening (CMD):	59
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2126
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	738
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	1377
	Recycled water - Flushing (CMD):	690
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2067
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	25
	Excess treated water	797
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:**	Detail study will be carried out
	Size and no of RWH tank(s) and Quantity:	Detail study will be carried out
	Location of the RWH tank(s):	Detail study will be carried out
	Quantity of recharge pits:	Detail study will be carried out
	Size of recharge pits :	Detail study will be carried out
	Budgetary allocation (Capital cost) :	....
	Budgetary allocation (O & M cost) :	....
	Details of UGT tanks if any :	Fire fighting underground water tank - 150 Cum
35.Storm water drainage	**Natural water drainage pattern:**	Proper storm water plan will be provided
	Quantity of storm water:	Detail study will be carried out
	Size of SWD:	Detail study will be carried out
Sewage and Waste water	**Sewage generation in KLD:**	1653 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of 1700 KLD
	Location & area of the STP:	Location : Open Ground and area of STP -900 sq.mt
	Budgetary allocation (Capital cost):	Rs. 150 Lakhs
	Budgetary allocation (O & M cost):	Rs. 30 Lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Waste will be generated during excavation and other construction activities
	Disposal of the construction waste debris:	To be disposed by handed over to authorized contractor/recycler
Waste generation in the operation Phase:	**Dry waste:**	3074 Kg/day
	Wet waste:	5026 Kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	165 Kg/day
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	Wastes will be handed over to authorized agency/recycler
	Wet waste:	Waste will be process in Organic Waste Converter and compost will be used as manure for gardening
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Used as manure for gardening
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Open Ground
	Area for the storage of waste & other material:	150 sq.mt
	Area for machinery:	50 sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 60 Lakhs
	O & M cost:	Rs. 12 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	11735.82 sq.mt
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	1500 nos.
	List of proposed native trees :	Karanj, Apta, Neem, Kadamb, Bhava, Sita Ashoka, Bakul, Son chapa, Nandruk, Palas, Shirish, Neem, Mango.
	Timeline for completion of plantation :	2 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Pongamia pinnata	Karanj	Shady tree	150
2	Bauhinia racemosa	Apta	Small tree with small white flowers, butterfly host plant	150
3	Anthocephallus cadamba	Kadamb	Shady, large deciduous tree, fast growing graceful tree, ball shaped flowers	150
4	Cassia fistula	Bhava	Medium sized deciduous tree, beautiful yellow flowers, Butterfly host plant	100
5	Saraca asoka	Sita Ashoka	Shady tree with red yellow flowers	200
6	Mimusops elengi	Bakul	Shady tree, small white fragrant flowers	230
7	Michalia champaca	Son chapa	Medium sized evergreen tree, fragrant yellow flowers, butterfly host plant	150
8	Ficus retusa	Nandruk	Shady tree, good for roadside plantation	100
9	Butea monosperma	Palas	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant	100
10	Albizia lebbeck	Shirish	Shady tree, yellowish green fragrant flowers	80
11	Azadiracta indica	Neem	Large tree, good for roadside plantation	40
12	Magnifera indica	Mango	Fruits bearing tree	50
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	200 KW
	DG set as Power back-up during construction phase	150 KW
	During Operation phase (Connected load):	9129 KW
	During Operation phase (Demand load):	4565 KW
	Transformer:	9 Nos. of 630 KVA
	DG set as Power back-up during operation phase:	2 nos. of DG sets of capacity 125 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

100 stand alone solar lights

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	100 stand alone solar lights	9 KW

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. 30 Lakhs
	O & M cost:	Rs. 3 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 & Dust Suppression etc	3
2	Environmental Monitoring	Air, Noise, Water, Biological	7
3	Sanitary Facility and Waste Water Management	Water	5
4	Solid Waste Management	Solid waste	4
5	Occupation Health & Safety Training	Health check up of workers, disinfection at site, First aid facilities, Personal protective equipments	5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP of capacity 1700 KLD	150	30

2	Rain Water Harvesting System	Recharge pits	15	1
3	Green Belt Development	RG area â?? 11735.82 sq.mt. Tree plantation	25	3
4	Solid Waste Management	OWC, Manpower, Colored Dustbins	60	12
5	Energy Saving Measures	Stand alone solar lights	30	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:	Separate exit and entry points.
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	....
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	3086 nos.
	Number of 4-Wheelers as approved by competent authority:	Not applicable
	Public Transport:	Not applicable
	Width of all Internal roads (m):	9m, 12m, 15m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 a (B2) category
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable

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

Brief information of the project by SEAC

PP, Mr. Vijay Lahane Chief Officer, Konkan Housing and Area Development Board, MHADA & Shri. B S Walekar, EE, were present during the meeting along with environmental consultant M/s Fine Envirotech Engineers.

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 52nd 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 the proposal is for EWS Mass Housing Scheme with total BUA (FSI- 137606.16Sq.mt + Non FSI- 7244.36 sq.mt) 144850.52sq.mt. It is noted that in Consolidated Statement it was mentioned as Non FSI area- 19056.80 sq.m, FSI area- 123537.28 sq.m and Total Built up Area 142594.08 sq.mt respectively. 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

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

Specific Conditions by SEAC:

1) Committee noted that there are drastic changes in area statement; therefore PP to Upload corrected Area statement.
2) PP to upload layout plan submitted to local body as per revised area statement with acknowledgement receipt.
3) PP to upload all layout plans on MPCB website for Green belt, Sewerage, Strom water drains, Parking, Fire tender movement.
4) PP to upload detail calculations for RG area, Parking area, Sewerage design, Storm water drainage,

FINAL RECOMMENDATION

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

SEAC Meeting number: 54 **Meeting Date** July 4, 2017

Subject: Environment Clearance for Application for Environment Clearance Proposed Residential Housing Project at Balkum,Thane, Maharashtra by Rajlaxmi Developers

General Information:

1.Name of Project	Proposed Residential Housing Project at Balkum,Thane, Maharashtra by Rajlaxmi Developers
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mehul Laxmikant Vasavda- Rajlaxmi Developers
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., Plot F-7, Road No.21, Wagle Estate, Thane (West)-400604, Maharashtra
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	Old Survey No. 235/B, New Survey No. 104/17, at Village Balkum, Taluka and District Thane (Sector-5)
9.Taluka	Thane
10.Village	Balkum
11.Area of the project	Thane Municipal Corporation (TMC)
12.IOD/IOA/Concession/Plan Approval Number	LOI obtained from Thane Municipal Corporation (TMC) File No. 7484 dated 9/11/2016
	IOD/IOA/Concession/Plan Approval Number: LOI obtained from Thane Municipal Corporation (TMC) File No. 7484 dated 9/11/2016
	Approved Built-up Area: 17676
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI obtained from Thane Municipal Corporation (TMC)
15.Total Plot Area (sq. m.)	7,324 sq.mt.
16.Deductions	701 sq.mt.
17.Net Plot area	6,623 sq.mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 15,832.90
	b) Non FSI area (sq. m.): 22,738.17
	c) Total BUA area (sq. m.): 38,571.07
19.Total ground coverage (m2)	1,537.54
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20%
21.Estimated cost of the project	1300000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Basement 1 + Lower Ground + Ground + 1st + 2nd	29 Floor	92 mtrs

23.Number of tenants and shops	326 tenants (300 Sale Component+ 26 Mhada Component)
24.Number of expected residents / users	1,798 residents
25.Tenant density per hectare	44/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)	DP road: 40m Internal roads: 12m

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	15 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**	Thane Municipal corporation (TMC)
	Fresh water (CMD):	163
	Recycled water - Flushing (CMD):	91
	Recycled water - Gardening (CMD):	88
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	243
	Fire fighting - Underground water tank(CMD):	220
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	95
Wet season:	**Source of water**	Thane Municipal corporation (TMC)
	Fresh water (CMD):	163
	Recycled water - Flushing (CMD):	91
	Recycled water - Gardening (CMD):	88
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	243
	Fire fighting - Underground water tank(CMD):	220
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	95
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:**	On Ground
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	Collection tank
	Size of recharge pits :	6 nos. of having capacity 44 m3/day each
	Budgetary allocation (Capital cost) :	Rs.27 Lakh
	Budgetary allocation (O & M cost) :	Rs.10 Lakh/Year
	Details of UGT tanks if any :	UGT capacity- (From Thane Municipal Corporation) - 100.8 KLD Flushing Tank Capacity- 50.40 KLD Fire Tank Capacity - 220.00 KLD
35.Storm water drainage	**Natural water drainage pattern:**	Along road side drain of 1.00 m * 0.85m
	Quantity of storm water:	0.6 m x 0.6 m
	Size of SWD:	350 mm * 450 mm
Sewage and Waste water	**Sewage generation in KLD:**	194
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. of STP capacity 250 m3/day
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	Rs.21 Lakh
	Budgetary allocation (O & M cost):	Rs.5.5 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total excavation quantity is 3,400 m3
	Disposal of the construction waste debris:	Construction and Demolition and De-silting waste
Waste generation in the operation Phase:	**Dry waste:**	216 kg/day
	Wet waste:	323 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	2 m3/day
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated and disposed of to recyclers
	Wet waste:	Wet garbage will be composted and used as organic manure for landscaping
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge can be used as manure for plantation and gardening purpose inside the premise
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	50 sq.mt.
	Area for machinery:	15 sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.10 Lakh
	O & M cost:	Rs.2 Lakh/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

41.Source of Fuel	Thane Municipal Corporation (TMC)
42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	1,538 sq.mt.
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	Not Applicable
	List of proposed native trees :	86
	Timeline for completion of plantation :	Not Applicable

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Puntranjiva	Puntranjiva roxburghii	20	Medicinal plant
2	Rain Tree	Albizia saman	5	Medicinal plant
3	Fig Tree	Ficus nota	9	Medicinal plant
4	Mango	Mangifera indica	8	Flower bearing plant
5	Kaduchinch	pithecellobium dulce	8	Flower bearing plant
6	karanj	Pongamia pinnata	8	Flower bearing plant
7	Chinch	Tamarindus indica	4	Flruit bearing plant
8	Tabebuia	Tabebuia	12	Flower bearing plant
9	Drumstick	Moringa oleifera	2	Fruit bearing plant
10	Gulmohar	Delonix regia	2	Flower bearing plant
11	Umber	Ficus racemosa	3	Fruit bearing plant
12	Kadhuneem	Azardiracta indica	1	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	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	Not Applicable
	DG set as Power back-up during construction phase	-
	During Operation phase (Connected load):	Not Applicable
	During Operation phase (Demand load):	2 MW
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	-
	Fuel used:	As per Requirement
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

LED/CFL lamps
Solar panel will be used

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED/CFL lamps	>1%

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.5 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water for dust suppression	pH, colour, odour, turbidity, TDS, BOD, COD, o and G	1.0
2	Air & noise monitoring	SPM, SO2 and NO2	2.0
3	Soil erosion control	Environment Monitoring	2.0
4	Water monitoring	pH, colour, odour, turbidity, TDS	1.0
5	Site sanitation	Disinfection	3.0
6	Gardening set up	Soil and Water	12.0
7	Disinfection-pest control	Disinfection	2.0
8	First aid facilities	First Aid Box	1.0
9	Health Check Up	Weekly	1.0
10	Training and awareness	Monthly	1.0
11	Personal protective equipments	Ear plugs, Safety shoes, helmet	2.0
12	Lamp for labour	Energy conservation	7.0
13	LED Lamps for labour hutments	Energy conservation	1.0
14	Miscellaneous	-	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 (Tertiary)	1 nos. having the capacity 250 KLD	21	5.5
2	Landscape development	Manuring	10	3
3	Solid Waste Composting plant	OWC 1 no.	10	2
4	Rain Water harvesting	Collection tanks will be used for Rain Water Harvesting	27	10
5	Fire Fighting	Fire extinguishers	75	10
6	Solar street lighting & LED common area Light	Solar panels for street light and LED	35	5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 no. of junction and the DP road is 40 m
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	10,083.12 sq.mt.
	Area per car:	25.66 sq.mt.
	Area per car:	25.66 sq.mt.
	Number of 2-Wheelers as approved by competent authority:	344 Nos.
	Number of 4-Wheelers as approved by competent authority:	393 Nos.
	Public Transport:	Not Aplicable
	Width of all Internal roads (m):	12 m and 9 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	Not Applicable
	Other Relevant Informations	This project was submitted at state level the generated file no. SIA/MH/NCP/57850/2016 dated 27.07.2016 . The acceptance letter was generated against the file no. SEIAA/2016/II/CR431/TC-3 dated 04.08.2016
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-07-2016

Brief information of the project by SEAC

PP, Mr. Mehul Vasavda & Architect Mr. Rodrigues were present during the meeting along with environmental consultant M/s Mahabal Enviro Engineers Pvt. Ltd.

PP informed that project is residential housing project at Balkum, Thane with total construction area 38,571 m2. PP informed that, the proposal was considered in 50th Part A meeting, but the proposal have not received any approval like CFO permissions, approval for plans, Water NOC, Sewage and storm water NOC etc. therefore project was deferred. Further to this, PP informed that there is change in plan therefore committee decided to appraise the proposal as fresh proposal.

PP informed that, the proposal was considered in 14th EAC (Infra-2) meeting at MoEF and reply of meeting also was submitted on 17.03.2017. The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. PP stated that total plot area is 7324m^2 & total construction area (FSI- 15,833 m^2+Non FSI- 22,738 m^2) of the project is 38,571m^2. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Parking is of Puzzle Parking type. PP to submit evacuation time analysis calculations.
2) PP to submit & upload energy saving calculation.

FINAL RECOMMENDATION

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

SEAC Meeting number: 54 **Meeting Date** July 4, 2017

Subject: Environment Clearance for Proposed Residential cum Commercial project "Sanghvi Eco City" at plot bearing S. no. 51/26, 69/13 of village Mire and S. No. 76/1/2 of village Mahajanwadi, Tal and Dist. Thane.

General Information:

1.Name of Project	Sanghvi Premises Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Shailesh Sanghvi, Sanghvi Premises Pvt. Ltd.
4.Name of Consultant	Dr. D. A. Patil, Mahabal Enviro Engg. Pvt. Ltd.
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No. 51/26, 69/13 of Village: Mire & S. No. 76/1/2 of village Mahajanwadi, Taluka & Dist: Thane.
9.Taluka	Thane
10.Village	Mire and Mahajanwadi
11.Area of the project	Mira-Bhayander Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Layout plan approved form MBMC vide no. MB/MNP/NR/5342/2015-16 dt. 19th March 2016
	IOD/IOA/Concession/Plan Approval Number: Layout plan approved form MBMC vide no. MB/MNP/NR/5342/2015-16 dt. 19th March 2016
	Approved Built-up Area: 26278.85
13.Note on the initiated work (If applicable)	Construction Work completed till today on site as per MBMC Approval is 18,945 m2.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Layout plan approved form MBMC vide no. MB/MNP/NR/5342/2015-16 dt. 19th March 2016
15.Total Plot Area (sq. m.)	51375.43 m2
16.Deductions	32518.72 m2
17.Net Plot area	18856.71m2
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 42729.83 m2
	b) Non FSI area (sq. m.): 24257.50 m2
	c) Total BUA area (sq. m.): 66987.33 m2
19.Total ground coverage (m2)	8251 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	43.75 %
21.Estimated cost of the project	1326300000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Bldg 1	G/S + 19	59.60
2	Bldg 2	G/S + 1 P +21	68.70
3	Bldg 3	L+G + 1 P +18	62.75
4	Bldg 4	G/S + 1 P +18	59.85
5	Bldg 5	G/S + 2 P +15	54.05
6	Bldg 6	S + 2P+15	54.05
7	Bldg 7	S + 2P+15	54.05
8	Bldg 8	S + 20	61.20
9	Bldg 9	S + 20	61.20
10	Club House	G+1	8.4

23.Number of tenants and shops	Total Tenements: 944 Nos. Shops: 63 Nos. Club House: 1 No. Hall: 1 No.

24.Number of expected residents / users	5,032 Nos
25.Tenant density per hectare	183.74/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)	18 m and 30 m wide DP Roads.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum turning radius is 9 m
29.Existing structure (s) if any	-
30.Details of the demolition with disposal (If applicable)	-

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MBMC
	Fresh water (CMD):	432 KLD
	Recycled water - Flushing (CMD):	222 KLD
	Recycled water - Gardening (CMD):	22 KLD
	Swimming pool make up (Cum):	3 KLD
	Total Water Requirement (CMD) :	654 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NoC
	Fire fighting - Overhead water tank(CMD):	As per CFO NoC
	Excess treated water	361 KLD

Wet season:	**Source of water**	MBMC+RWH
	Fresh water (CMD):	267 KLD + 165 KLD RWH
	Recycled water - Flushing (CMD):	222 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	3 KLD
	Total Water Requirement (CMD) :	654 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NoC
	Fire fighting - Overhead water tank(CMD):	As per CFO NoC
	Excess treated water	383 KLD
Details of Swimming pool (If any)	Swimming will be provided, Water requirement for swimming pool will be 3 KLD	

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 m
	Size and no of RWH tank(s) and Quantity:	No. of RWH tank: 10 Nos with Total RWH tank capacity: 350 m3
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	35 lakh
	Budgetary allocation (O & M cost) :	4 Lakh/year
	Details of UGT tanks if any :	Underground
35.Storm water drainage	**Natural water drainage pattern:**	Slope towards South side
	Quantity of storm water:	9,820.12 m3/hr.
	Size of SWD:	PLOT A- 750 x 550 mm channel, PLOT B- 600 x 300 mm channel, PLOT C- 450 x 300 mm channel

Sewage and Waste water	**Sewage generation in KLD:**	611
	STP technology:	MBBR
	Capacity of STP (CMD):	Total STP Capacity : 660 KLD, (Plot A: 1 x 400 KLD, Plot B: 1 x 175 KLD, Plot C: 1 x 85 KLD.)
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	130 Lakh
	Budgetary allocation (O & M cost):	25 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1,935 m3
	Disposal of the construction waste debris:	The construction debris will be disposed as per the â??Construction and Demolition and Desilting Waste (Management and Disposal) Rules 2016.
Waste generation in the operation Phase:	**Dry waste:**	969 kg/d
	Wet waste:	1,453 kg/d
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	6 kg/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):	Sludge will be used as manure for gardening
	Others if any:	The household 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:	130 m2
	Area for machinery:	64 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	40 Lakh
	O & M cost:	15 Lakh/Year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	4407.12 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	220 Nos
	List of proposed native trees :	220 Nos
	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	Azadiracta indica	Neem	28	Large tree, good for roadside plant
2	Alstonia scholaris	Satwin	31	Shady Tree, white fragrant flowers
3	Saraca asoka	Sita Ashok	32	Shady tree with red-yellow flowers.
4	Mimusops elengi	Bakul	35	Shady tree, small white fragrant flowers
5	Butea monosperma	Palas	31	Medium sized deciduous tree. Beautiful orange
6	Pongamia pinnata	Karanj	33	Shady tree
7	Anthocephallus cadamba	Kadamb	30	Shady, large tree, ball shaped flowers.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Vitex negundo	-	-
2	Adhatoda vasica	-	-
3	Plumbago zeylanica	-	-
4	Ziziphus mauritiana	-	-

47.Energy

Power requirement:	**Source of power supply :**	Tata Power
	During Construction Phase: (Demand Load)	200 kVA
	DG set as Power back-up during construction phase	200 kVA
	During Operation phase (Connected load):	5.8 MW
	During Operation phase (Demand load):	3.0 MW
	Transformer:	NA
	DG set as Power back-up during operation phase:	Total capacity 1200 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Energy efficient lighting using LEDs
2. Use of high energy efficient pumps for fire fighting, UG tanks and STP
3. Solar Street lights are proposed for common areas such as open spaces, pathways, RG etc.
4. Solar Hot Water system will be proposed
5. Natural shading through elevation features to minimize heat gain and reduce air-conditioning requirement

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving	22.15 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	110 Lakh
	O & M cost:	7 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	-	3
2	Site sanitation (Toilets)	-	3
3	Environmental Monitoring	-	4
4	Potable Water Supply to Labour Camp	-	4
5	Health check-up & first aid	-	4
6	Safety Personal Protective Equipment	-	5
7	Traffic Management	-	3
8	Safety nets	-	6
9	Tyre cleaning and Vehicle maintenance	-	2

10	Solid Waste Management & Site maintenance activity	-	4
11	Safety - Training to Workers	-	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	STP (Tertiary)	Continuous O & M	130	25
2	Solar Hot Water	Weekly	110	7
3	Rain Water Harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	35	4
4	Solid waste Composting plant	Continuous O & M	40	15
5	Landscape	Daily	28	6
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:	2
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	1 podium with Total podium area 6,179 m2
	Total Parking area:	12,495 m2
	Area per car:	24.50 m2
	Area per car:	24.50 m2
	Number of 2-Wheelers as approved by competent authority:	1010 Nos
	Number of 4-Wheelers as approved by competent authority:	510 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	No
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Our project site is located at a distance of approx. 60 m from the boundary of Sanjay Gandhi national park (SGNP). We have applied for NBWL clearance dt. 17.02.2017
	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

Representative of PP, Mr. Shailesh Sanghvi & Architect Mr. Regi were present during the meeting along with environmental consultant M/s D.A Patil; Mahabal enviro engineers Pvt.Ltd.

It was noted by the committee that, the project was considered in 48th & 43rd meeting of SEAC-II. In 48th Meeting, project was deferred as the PP was absent & in 43rd meeting, as committee noted that, total plot potential was 56,866 m^2. & construction was initiated on the basis of permissions issued by Mira Bhayender Municipal Corporation in the year 2009.

Accordingly two buildings on plot A with area admeasuring 18,945 m^2 have been completed without obtaining EC. Committee decided to refer the matter to Environment Department / SEIAA for action on alleged violation.

In response to this, following directions received from Environment Department-

"MOEF & CC, GOI has recently issued Notification dated 14/3/2017, regarding procedure to be followed in the matters of violation hence; Proposals regarding violation will not be appraised by State SEAC/SEIAA. According to above mentioned Notification, EAC, MoEF & CC will appraise the violation cases & EC will be granted at central level."

Accordingly, Member Secretary, SEAC-2 informed PP vide letter dated 23rd May, 2017.

DECISION OF SEAC

***After deliberation,* committee informed the PP to follow the procedure stipulated in the Notification dated 14th March, 2017 & to submit their application to EAC, MOEF & CC**

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-II decided to refer the proposal to SEIAA/Environment Department for verification of above mentioned violation.

Subject: Environment Clearance for Amendment & Expansion in EC for Residential cum Commercial Project at S. No. 279, 281, 284, 286, 287, 288, 296, 298, 301/PT, 302, 303, 304, 305, 306/PT, 308, 309, 310,311, 312,314, 315, 317, 318, 323, 339, 340, 341, 342, 343 & 344 at Village Khativali, Tal- Shahapur, Dist- Thane. by M/s Tata Value Homes Ltd

General Information:

1.Name of Project	M/s. Tata Value Homes Ltd
2.Type of institution	Private
3.Name of Project Proponent	Mr. K. Subramaniam, Tata Value Homes Pvt. Ltd.
4.Name of Consultant	Dr. D. A. Patil; Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Township Project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment & Expansion in EC for Residential cum Commercial Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC Granted Ref No. SEAC-2010/CR 754/TC II Dt. 13th October 2015 (FSI: 1,41,374.95 m2, Non FSI: 7,164.92 m2 & Total Construction area: 1,48,539.87 m2)
8.Location of the project	At S. No. 279, 281, 284, 286, 287, 288, 296, 298, 301/PT, 302, 303, 304, 305, 306/PT, 308, 309, 310,311, 312,314, 315, 317, 318, 323, 339, 340, 341, 342, 343 & 344 at Village Khativali, Tal- Shahapur, Dist- Thane.
9.Taluka	Shahapur
10.Village	Khativali
11.Area of the project	Town planning Dept. Thane
12.IOD/IOA/Concession/Plan Approval Number	Plan approved by Town Planning Dept. Thane dt. 01.08.2011
	IOD/IOA/Concession/Plan Approval Number: Plan approved by Town Planning Dept. Thane dt. 01.08.2011
	Approved Built-up Area: 111013.42
13.Note on the initiated work (If applicable)	Phase I: 56,386.85 m2 completed, EC Granted (Ref No. SEAC-2010/CR 754/TC II Dated-13th October 2015)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	2,04,160.00 m2
16.Deductions	8036.32 m2
17.Net Plot area	1,96,123.68 m2
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,98,565.05 m2
	b) Non FSI area (sq. m.): 29,901.21 m2
	c) Total BUA area (sq. m.): 228466.26
19.Total ground coverage (m2)	18595.12 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	9.48 %
21.Estimated cost of the project	4400000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Type 1- 9 Buildings	G+8	26.25
2	Type 1A- 2 Buildings	G+8	26.25
3	Type 1B- 1 Buildings	G+7	23.40
4	Type 1C- 2 Buildings	G+7	23.40
5	Type 2- 18 Buildings	G+8	26.25
6	Type 2A- 1 Buildings	G+8	26.25
7	Type 2B- 1 Buildings	G+8	26.25
8	Type 3- 8 Buildings	G+8	26.25
9	Type A- 8 Buildings (Phase I)	G+2	9.15
10	Type B- 19 Buildings (Phase I)	G+4	14.85
11	Type B1- 9 Buildings (Phase I)	G+2	9.15
12	Type C- 5 Buildings (Phase I)	G+4	14.85
13	CFC -1 Building	G+1	6.15

14	CFC -2 Building	G+4	14.85

23.Number of tenants and shops	Total Flats: 4,340 Nos. (Phase I: 1,348 flats: & Phase II: 2,992 flats) Shops: 40 Nos. (Phase I)
24.Number of expected residents / users	23,770 Nos.
25.Tenant density per hectare	213/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The proposed project site is accessible by 60 m wide NH3. The entry is from the proposed DP road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 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**	Bhatsa River
	Fresh water (CMD):	1,984 KLD
	Recycled water - Flushing (CMD):	1,530 KLD (Flushing, Gardening & HVAC make-up)
	Recycled water - Gardening (CMD):	104
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	3,023 KLD
	Fire fighting - Underground water tank(CMD):	Will be provided as per CFO norms
	Fire fighting - Overhead water tank(CMD):	Will be provided as per CFO norms
	Excess treated water	Excess Treated water to agricultural use

Wet season:	**Source of water**	Bhatsa River + RWH
	Fresh water (CMD):	1,612 + 372 KLD
	Recycled water - Flushing (CMD):	1,426 KLD (Flushing & HVAC make-up)
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	3,023 KLD
	Fire fighting - Underground water tank(CMD):	Will be provided as per CFO norms
	Fire fighting - Overhead water tank(CMD):	Will be provided as per CFO norms
	Excess treated water	Excess Treated water to agricultural use
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4-5 m
	Size and no of RWH tank(s) and Quantity:	18 RWH tanks of total 750 m3 capacity
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	21 Recharge Pits (The overflow from the RWH tanks will be discharged in Recharge pits.)
	Size of recharge pits :	Size: 4.5 m x 4.0 m x 3.0 m
	Budgetary allocation (Capital cost) :	150 Lakh
	Budgetary allocation (O & M cost) :	15 Lakh/year
	Details of UGT tanks if any :	Underground
35.Storm water drainage	**Natural water drainage pattern:**	Towards South side of the plot
	Quantity of storm water:	The runoff has been computed as 20.67 m3/s (Plot = 5.57 m3/s and adjoining area = 15.10 m3/s)
	Size of SWD:	1000 mm wide and 1200 mm deep channel

Sewage and Waste water	**Sewage generation in KLD:**	2,824 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	Total Capacity: 3,000 KLD
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	600 Lakh
	Budgetary allocation (O & M cost):	120 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: 6,634 m3
	Disposal of the construction waste debris:	The construction debris will be used at site for site formation/leveling. Top soil will be used for gardening
Waste generation in the operation Phase:	**Dry waste:**	4,520 kg/day
	Wet waste:	6,780 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	28 KLD
	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 system (Eco Biocompack) 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:	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:	Total 400 m2 area will be provided
	Area for machinery:	Machine area/unit: 30 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	288 Lakh
	O & M cost:	115 Lakh/year

37.Effluent Charecterestics

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

Amount of effluent generation (CMD):	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	NA	NA	NA	NA	NA	NA	NA

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	NA	NA	NA	NA
41.Source of Fuel		NA		
42.Mode of Transportation of fuel to site		NA		

43.Green Belt Development	**Total RG area :**	20780.81 m2
	No of trees to be cut :	Total existing trees: 47 Nos, Trees to be cut: 27 Nos & Trees to be retained: 20 Nos,
	Number of trees to be planted :	Trees to be planted: 1,150 Nos.
	List of proposed native trees :	As below
	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
1	Albizia lebbeck	Shirish	45	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	42	Large tree, good for roadside plantation
3	Ailanthus excelsa	Maharukh	40	Large tree, good for roadside plantation
4	Ficus retusa	Nandruk	35	Shady tree, good for roadside plantation
5	Alstonia scholaris	Satwin	55	Shady Tree, white fragrant flowers
6	Pongamia pinnata	Karanj	45	Shady tree
7	Saraca asoka	Sita Ashok	42	Shady tree with red-yellow flowers.
8	Bombax ceiba	Katesavar	46	Large tree, red flowers
9	Anthocephallus cadamba	Kadamb	48	Shady, large tree, ball shaped flowers.
10	Cassia fistula	Bahava	42	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
11	Mimusops elengi	Bakul	46	Shady tree, small white fragrant flowers
12	Nyctanthes arbor-tristis	Parijatak	45	Small deciduous fast growing tree, beautiful flowrers
13	Lagerstroemia flos-regineae	Tamhan	42	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
14	Murraya paniculata	Kunti	42	Small tree, Fragrant white flowers, Butterfly host plant
15	Gmelina arborea	Shivan	32	Fast growing tree with beautiful yellow flowers

16	Bauhinia racemosa	Apta	46	Small tree with small white flowers, Butterfly host plant
17	Bombax ceiba	Kate sawar	42	Large deciduous tree. Flowers attract many birds.
18	Erythrina indica	Pangara	45	Medium sized deciduous tree. Bright scarlet flowers.
19	Butea monosperma	Palas / Flame of the forest	42	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
20	Caryota urens	Fish tail palm	46	Tall evergreen tree
21	Michelia champaca	Son chafa	56	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
22	Putranjiva roxburghii	Putranjiva	48	Medium sized evergreen tree
23	Anthocephallus cadamba	Kadamb	42	Shady, large deciduous tree, fast-growing graceful tree, ball shaped flowers.
24	Alstonia scholaris	Satwin	46	Shady, large evergreen Tree, white fragrant flowers
25	Murraya koengii	Curry leaf	45	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	Vitex negundo - Nirgudi	-	-
2	Adhatoda vasica - Adulasa	-	-
3	Plumbago zeylanica - White Plumbago	-	-
4	Ziziphus mauritiana - Ber	-	-
5	Stachytarpheta sp - Stachytarpheta	-	-
6	Cassia tora - Takala	-	-
7	Cassia auriculata - Tarwad	-	-
8	Passiflora edulis- Krushna Kamal	-	-

47.Energy

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):	19.5 MW
	During Operation phase (Demand load):	14.0 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	10X225 kVA, 5X315 kVA, 3X250 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Yes, High Tension line is passing through our plot.

48.Energy saving by non-conventional method:

Efficient wall systems like solid blocks with fly ash content,
• Energy conservation measures taken by using low energy consuming fixtures like, LED lamps, LED in flats and LEDs in Lift, Lobby, and Passages
• Solar lighting on street and RG area,
• Solar Hot water system to buildings
• Use of high energy efficient pumps for fire fighting, UG tanks and STP

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy savings	21.26%
2	Energy savings through renewable energy sources	16.00%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	270 Lakh
	O & M cost:	14 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	-	10
2	Site sanitation and Potable Water Supply to Labour -	-	15
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)	8
4	Health check-up & first aid	-	10
5	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	25
6	Traffic Management	(Sign Boards, Persons at entry exit and Parking area)	10
7	Storm water Management	(SWD along plot boundary and Sedimentation Pits)	10
8	Tyre cleaning and Vehicle maintenance	-	5
9	Safety Training to Workers (Twice in Year), Safety Officer	-	10
10	Disinfection	-	5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	600	120
2	Solar Hot Water	Weekly	270	14
3	Rain Water Harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	288	115

4	Solid waste Composting plant	Continuous O & M	173	17
5	Landscape	Daily	208	31
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	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
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The proposed project site is accessible by 60 m wide NH3 also the entry from the proposed D.P. road.
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	12369.60 m2 (phase-II)
	Area per car:	12.50 m2
	Area per car:	12.50 m2
	Number of 2-Wheelers as approved by competent authority:	3624
	Number of 4-Wheelers as approved by competent authority:	206
	Public Transport:	NA
	Width of all Internal roads (m):	15 m & 12 m wide
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	NA

	Other Relevant Informations	Obtained EC vide letter SEAC 2011/CR66/TC.2 dt. 21/10/2011 for Phase I of the project with total construction area of 69,717.83 m2.The SEIAA granted EC vide letter SEAC 2010/CR754/TC.2 dt. 13/10/2015 for Phase II of the project with total construction area of 1,48,539.87 m2As per the EC, as of now we have constructed 56,386.85 m2 of area. As per the New Government policy dt. 29.01.2016 with respect to additional TDR, our plot potential is increasing and hence this expansion. The plot area of proposed project is 2,04,160 m2, FSI area is 1,98,565.05 m2 and total construction area is 2,28,466.26 m2.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	12-07-2016

Brief information of the project by SEAC

PP, Mr. Kishor Naik & Architect Mr. Ajay Wade were present during the meeting along with environmental consultant M/s D.A Patil; Mahabal enviro engineers.

PP stated that the project is for expansion, as the Plot potential increases due to additional TDR. PP informed that project received the EC vide dated 21/10/2011 for Phase-I comprising total build-up area 69,717.83 m^2 & for Phase-II EC obtained vide letter dated 13/10/2015 with total construction area 1,48,539.87 m^2. PP also informed that till date they have constructed 56,386.85 m^2.

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 2,04,160 sq. m & total construction area of the project (FSI- 1,98,565.05 sq.mt + Non FSI- 29,901.21 sq.mt) is 2,28,466.26 sq.mt. PP also stated that, the project was considered in 50th SEAC II (Part A) meeting held on 06.09.2016 for Terms of Reference and the EIA report has been prepared as per TOR issued. Committee noted that the project is under 8a (B1) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP informed that, the project is zero discharge project. PP to ensure that, BOD of the treated waste water is less than 5 mg/lit and suspended solids is 10 mg/lit.
2) PP to submit detail landscape plan indicating existing trees, trees to be cut, locations of proposed plantation, area under plantation etc. PP to ensure to plant 2500 trees in total.
3) PP to provide corpus for maintenance of environmental infrastructure to the society.
4) As stated by PP, Fire station of JSW is 3 Km away. PP to make arrangement/agreement with JSW with regards to make available fire engines to their site in addition to proposed onsite fire station.

FINAL RECOMMENDATION

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

SEAC Meeting number: 54 **Meeting Date** July 4, 2017

Subject: Environment Clearance for Enviroment clearance for Residential & Commercial project at Survey No. 22/1(PT), 22/3(PT), 23/11a (PT), 23/13A (PT) ,16/2(PT), Shahad - Mohane Road, Village Shahad, Kalyan (West) 421103 by M/s. Dharmu P. Budhwani (K.P. Developers) and 2 Others

General Information:

1.Name of Project	Residential & Commercial project at Survey No. 22/1(PT), 22/3(PT), 23/11a (PT), 23/13A (PT) ,16/2(PT), Shahad - Mohane Road, Village Shahad, Kalyan (West) 421103 by M/s. Dharmu P. Budhwani (K.P. Developers) and 2 Others
2.Type of institution	Private
3.Name of Project Proponent	M/s. Dharmu P. Budhwani (K.P. Developers) and 2 Others
4.Name of Consultant	M/s. Enviro Analysts And Engineers 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	Survey No. 22/1(PT), 22/3(PT), 23/11a (PT), 23/13A (PT) ,16/2(PT), Shahad - Mohane Road, Village Shahad, Kalyan (West) 421103
9.Taluka	Kalyan
10.Village	Shahad
11.Area of the project	Kalyan Dombivili Municipal Corporation (KDMC).
12.IOD/IOA/Concession/Plan Approval Number	Yes
	IOD/IOA/Concession/Plan Approval Number: CC received under letter no. KDMC/NRV/BP/KV/2012-13/49/47 dtd: 9.5.2017
	Approved Built-up Area: 60383.52
13.Note on the initiated work (If applicable)	Till dated total construction on site is 19,916.00 sq.m
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI received, Vide letter No. KDMC/NRV/766 dtd:28.04.2017
15.Total Plot Area (sq. m.)	18,520.00
16.Deductions	3896.00
17.Net Plot area	14624.00
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 31, 013.23
	b) Non FSI area (sq. m.): 29, 370.29
	c) Total BUA area (sq. m.): 60383.52
19.Total ground coverage (m2)	2785.99
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.05%
21.Estimated cost of the project	2140000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Buildings A1 & A2	St(P) + Gr (P) + 2P + 22 floors	71.40
2	B1, C1 & C2	St + P + 15 floors	48.60
3	C3, C4	St + 7 floors	22.95
4	C5	Gr+ 7 floors	23.40

23.Number of tenants and shops	Residential- 535 Nos. Commercial: 549.52 sq.m
24.Number of expected residents / users	Residential: 2675 nos. Commercial: 142 nos.
25.Tenant density per hectare	382 tenant/ hector
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9.00 m
29.Existing structure (s) if any	Till dated total construction on site is 19,916.00 sq.m
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	KDMC/Recycled water
	Fresh water (CMD):	249
	Recycled water - Flushing (CMD):	152
	Recycled water - Gardening (CMD):	28
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	429
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	225
	Excess treated water	184
Wet season:	**Source of water**	KDMC/RWH/ STP Treated water
	Fresh water (CMD):	249
	Recycled water - Flushing (CMD):	152
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	401
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	225
	Excess treated water	211
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:**	2 - 3 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	33117.33
	Size of recharge pits :	6 nos.
	Budgetary allocation (Capital cost) :	Rs. 1.5 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.06 Lakh/annum
	Details of UGT tanks if any :	Domestic: 365 Flushing: 152 Fire fighting: 400
35.Storm water drainage	**Natural water drainage pattern:**	Towards east
	Quantity of storm water:	19546.62 cum
	Size of SWD:	450 mm X 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	335
	STP technology:	MBBR
	Capacity of STP (CMD):	183 KLD & 153 KLD
	Location & area of the STP:	Ground level, Area of STP: 165 sq.m
	Budgetary allocation (Capital cost):	Rs. 70 lakhs
	Budgetary allocation (O & M cost):	Rs. 7 lakhs/yr

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Recyclable waste will be generated like empty cement bags & cans, scrap metal etc. Debris & construction waste shall be generated.
	Disposal of the construction waste debris:	Recyclable waste like empty cement bags & empty paint cans shall be handed over to local vendors. Broken tiles shall be used for china mosaic of terrace. Scrap metals shall be sold to recyclers.
Waste generation in the operation Phase:	**Dry waste:**	546 Kg/day
	Wet waste:	828 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	22 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to Local Recyclers.
	Wet waste:	Will be processed in the OWC. manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure & replacement of saw dust for OWC
	Others if any:	NA
Area requirement:	**Location(s):**	Ground level
	Area for the storage of waste & other material:	Total Area: 190 sq.m
	Area for machinery:	Total Area: 190 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 14 Lakh
	O & M cost:	Rs. 3.3 Lakh/yr

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	2996 sq.m
	No of trees to be cut :	Nil
	Number of trees to be planted :	497
	List of proposed native trees :	As listed 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
1	Spathodea campanulata yellow	Yellow soathodea	134	Evergreen Tree
2	Dillenia indica	Chulta	150	ornamental tree
3	Michelia champaka	Sonchafa	74	Flowering Plant
4	Lagerstroemia speciosa	Tamhan	105	Flowering Plant
5	Cassia renigera	Purple Cassia	17	ornamental tree
6	Pterospermum acerifolium	Kanak champa/ Karmikar	16	ornamental tree
7	Catophyllum inophyllum	Sultan Champa/Surangi	21	Flowering plant
8	Wodetia bifurcata	Fox tail Palm	22	Shady tree
9	Phoenix sylvestris	Psuedo Date palm	8	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 :**	MSEDCL
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	1787.78 KW
	During Operation phase (Demand load):	1609.00 KW
	Transformer:	2 nos. of transfromer
	DG set as Power back-up during operation phase:	1 X 140 KVA & 1 X 200 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Road/Landscape - Solar Lighting
Lobby & staircase - LED lights
Solar Hot Water system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy saving: 16.22 %	Total energy saving: 16.22 %

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. 110 lakh
	O & M cost:	Rs. 55 lakhs/yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water for Dust Suppression	2.00
2	EHS	Site Sanitation	2.00
3	Environmental Monitoring	Environmental Monitoring	6.00
4	EHS	Disinfection	1.5
5	EHS	Health Check Up	1.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	STP	70	7
2	Water Environment	RWH system	1.5	0.06
3	Energy	Solar System	110	55
4	Solid Waste Management	OWC	14	3.3
5	Land Environment	Landscaping	77.9	15.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site is accessible through the existing 20 m wide DP road.

Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Area: 6444 sq.m
	Total Parking area:	4567.20 sq.m
	Area per car:	16 sq.mt
	Area per car:	16 sq.mt
	Number of 2-Wheelers as approved by competent authority:	285 nos.
	Number of 4-Wheelers as approved by competent authority:	285 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Schedule 8(a), category B
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	30-09-2016

Brief information of the project by SEAC

PP, Mr. Sunil Patil & Architect Mr. Satish Kanade were present during the meeting along with environmental consultant M/s Enviro Analysis & Engineers.

PP stated that the original plot potential was 19,916 Sq.m. Now, PP has plan to upload the TDR potential on the project and hence the expansion. PP informed that, total plot area is 18,520.00 sq.mt & total construction area of the project (FSI- 31,013.23 sq.mt + Non FSI- 29, 370.29 sq.mt) is 60, 383.52 sq.mt. PP also informed that till date they have constructed 19,916.00 sqm.

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

DECISION OF SEAC

In view of above, the proposal is recommended and shall be considered further after the compliance of above observations submitted for reconsideration.

Specific Conditions by SEAC:

1) PP has not shown the plan approval, only a LOI has been produced with conditions about calculation of plot potential on the basis of loading TDR. Hence, PP to submit approved plans to SEIAA.
2) PP to ensure renewable energy should be 16% of total energy demand.
3) Committee noted that, there is no clear fire tender movement for all flats of wing A1. PP to ensure that Wing A1, A2 are having access to fire tender by adopting appropriate measures/ changes in the plan or also explore possibility of reducing width of the podium. Similar possibility should also be ascertained for other wings.

FINAL RECOMMENDATION

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

SEAC Meeting number: 54 **Meeting Date** July 4, 2017

Subject: Environment Clearance for Environment Clearance for Application for Expansion in Project

General Information:

1.Name of Project	"Sukoon Heights" a Residential and Commercial Project on Plot bearing S. No. 36/4, 37/1, at Village, Kausa, Thane, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	Mr. Faiyaz Ismail Virani
4.Name of Consultant	Mahabal Enviro Engineers Ltd. Thane, Maharashtra
5.Type of project	Residential cum 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	We have received the Environment Clearance From File No. SEAC-2013/CR-320/TC-1 dated 4th September, 2014
8.Location of the project	On plot bearing S. No. 36/4, 37/1, Village Kausa, Thane
9.Taluka	Thane
10.Village	Kausa
11.Area of the project	Thane Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	C.C. No. TMC/TDD/1855/16 Dated: 24.06.2016
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 66037
13.Note on the initiated work (If applicable)	We had constructed construction of Building Nos. 1,2 & 3 upto 17th floor constituting area of about 21,537.12 m2, Building No. 4 upto 18th floor constituting area of about 7879.87 m2, Building No. 5 & 6 upto 6th floor constituting area of about 4,144.14 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	15,050 sq. mt.
16.Deductions	5,130.53 sq. mt.
17.Net Plot area	9,919.47 sq. mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22,705.08 sq. mt
	b) Non FSI area (sq. m.): 43,331.59 sq. mt.
	c) Total BUA area (sq. m.): 66,036.67 sq. mt
19.Total ground coverage (m2)	Total plinth area is 5,718 sq. mt
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49%
21.Estimated cost of the project	330000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential 1	Stilt + 17 floors	55 mt
2	Residential 2	Stilt + 17 floors	55 mt
3	Residential 3	Stilt + 17 floors	55 mt
4	Residential 4	Stilt + 18 floors	54.50 mt
5	Residential 5	Stilt + Podium + 6 floors	23.90 mt
6	Residential 6	Stilt + Podium + 6 floors	23.90 mt
7	Club House	At podium level	10.8 mt

23.Number of tenants and shops	Residential : 489 nos of tenements, Club house 31 nos of tenements
24.Number of expected residents / users	2,476 Nos.
25.Tenant density per hectare	493/h
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 mt. 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 mt.
29.Existing structure (s) if any	We had constructed construction of Building Nos 1, 2 & 3 constituting area of about 21.537.12 sq. mt., Building No 4 constituting area of about 7879.87 sq. mt. and Building No 5 & 6 Constituting area of about 4,144.14 sq. mt.
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**	Thane Municipal Corporation
	Fresh water (CMD):	222
	Recycled water - Flushing (CMD):	131
	Recycled water - Gardening (CMD):	18
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	331
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	152
Wet season:	**Source of water**	Thane Municipal Corporation
	Fresh water (CMD):	222
	Recycled water - Flushing (CMD):	131
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	331
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	161
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 meters
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	3 Nos.
	Size of recharge pits :	3 m x 5 m depth
	Budgetary allocation (Capital cost) :	Rs.12 Lakhs
	Budgetary allocation (O & M cost) :	Rs.0.5 Lakhs
	Details of UGT tanks if any :	1. Domestic UG tank capacity : 370 m3 2. Flushing UG tank capacity : 135 m3 3. Fire UG tank capacity : 300 m3
35.Storm water drainage	**Natural water drainage pattern:**	Natural topography and slope of the plot
	Quantity of storm water:	3.94 m3/sec
	Size of SWD:	0.45 m x 0.6 m
Sewage and Waste water	**Sewage generation in KLD:**	298
	STP technology:	Moving Bed Bio Reactor (MBBR)
	Capacity of STP (CMD):	1 Nos of STP having capacity 300 m3/day
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	Rs.48 Lakhs
	Budgetary allocation (O & M cost):	Rs.5.0 Lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1,423 kg/day
	Disposal of the construction waste debris:	Debris generated will be sent to the authorized debris disposal site as per
Waste generation in the operation Phase:	**Dry waste:**	737 kg/day
	Wet waste:	491 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	3 kg/day
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Dry waste will be segregated & disposed off to recyclers
	Wet waste:	Wet waste will be composted and used as organic manure for landscaping
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge can be used as manure for plantation & gardening purpose inside the premise
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	10 sq. mt.
	Area for machinery:	2 sq. mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.10 Lakhs
	O & M cost:	Rs.0.4 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	3,680 sq. mt. (16%)
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	225 Nos.
	List of proposed native trees :	225 Nos
	Timeline for completion of plantation :	-

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	20	Medicinal Plant
2	Albizza lebbek	Shirish	15	Medicinal Plant
3	Alstonia scholaris	Saptaparn	34	Evergreen Tree
4	Bauhinea purpurea	Kanchan	11	Flower bearing tree
5	Erythrina indica	Pangara	20	Medicinal Tree
6	Peltophorum ferrugineum	Copper pod Tree	35	Flower bearing evergreen tree
7	Cassia fistula	Golden Shower Tree	15	Flower bearing tree
8	Lagestromia speciosa	Flos Reginae	21	Flower bearing tree
9	Butea monosperma	Palas	26	Flower bearing tree
10	Terminalia cuniata	Arjun	3	Evergreen Tree
11	Acacia catechu	Kahir	20	Evergreen Shrub
12	Mimosups elengii	Bakul	35	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	Not Applicable	Not Applicable	Not Applicable

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd
	During Construction Phase: (Demand Load)	1,555 kVA
	DG set as Power back-up during construction phase	4 Nos x 50 kVA
	During Operation phase (Connected load):	-
	During Operation phase (Demand load):	-
	Transformer:	-
	DG set as Power back-up during operation phase:	-
	Fuel used:	As per requirement
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

1. Use of energy efficient, BEE labeled electrical fixtures, solar powered lighting in external common area.
2. Energy efficient Light Emitting Diode (LED) lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. of fixtures
3. Solar Electrical Power + LED lighting is complimentary in Residential as in day time, it is used effectively in night time in Common areas like staircase area lighting
4. Calculation & % of saving: 5%

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
Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.4.5 Lakhs
	O & M cost:	Rs.0.24 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water For Dust Suppression	pH, Colour, odour, Turbidity, Total Hardness, Metals	1.5
2	Air & Noise monitoring	SPM, SO2, NO2	1.8
3	Soil erosion control	Water spray on ground	0.8
4	Water monitoring	pH, Colour, Odour, turbidity, Total hardness, metals	1.6
5	Site Sanitation	Disinfection	1.8
6	Gardening Set up	Soil and Water	-
7	Disinfection-Pest Control	Disinfection	0.9
8	First Aid Facilities	First Aid Box	0.1
9	Health Check Up	Weekly	0.1
10	Training and awareness	Daily	0.02
11	Personal Protective Equipments	Safety jacket, Safety shoes, Helmet, Gloves	0.2
12	Modular STP	Construction and maintenance	2.5
13	labour hutments	CFL	-

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 plant having capacity	48	5.0
2	Water Treatment Plant	Construction and maintenance	12	0.5
3	Landscape Development	RG area	11	0.9
4	Solid Waste Composting	Composting	10	0.4
5	Rain water harvesting	Channelizing and maintenance of drainage line	12	0.5
6	Fire Fighting	Fire extinguisher and sand bucket	3.2	0.35

7	Energy Conservation	Solar panels and LEDq	4.5	0.24
8	Environmental Monitoring	Air, Water, Soil and Noise monitoring	0.35	0.12

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	30 m & 30 m wide D.P. Road
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	2 Nos constituting total area 6,348 sq. mt
	Total Parking area:	Stilt (1,960 m2) + Podium (6,348 m2) + Open (483 m2) = 8,791 sq. mt
	Area per car:	12.25 sq.mt
	Area per car:	12.25 sq.mt
	Number of 2-Wheelers as approved by competent authority:	515 Nos
	Number of 4-Wheelers as approved by competent authority:	354 Nos
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 meters
	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	1. We are applying for Expansion in Proposed Residential cum Commercial project "Sukoon Heights" at village: Kausa, Thane, Maharashtra.2. We have submitted the form 1 and 1A on MoEF having proposal No. SIA/MH/NCP/59778/2016. and generated Acceptance File no as No. F. No. SEIAA/2017/II/CR-81/TC-3
	Have you previously submitted Application online on MOEF Website.	Yes

	Date of online submission	07-03-2017

Brief information of the project by SEAC

Representative of PP, Ms. Saima Virani was present during the meeting along with environmental consultant M/s Mahabal enviro engineers Pvt.Ltd.

PP stated that the project is for expansion. PP informed that project received the EC vide dated 4th September 2014 with total plot area 15,050.00 m2 which comprising total build-up area 38,071.00m^2. PP informed that till date they have constructed 33,561 m^2 of area. PP also informed that two buildings received the OC & application for 3rd building was submitted to local body. 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 15,050.00 sq. mt & total construction area of the project (FSI- 22,705.08 sq.mt + Non FSI- 20,626.51 sq.mt) is 43,331.59 sq.mt. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit performance of existing STP and MSW facility.
2) PP to ensure that the renewable energy should be 11% of total energy demand.
3) PP to submit evacuation time calculations.

FINAL RECOMMENDATION

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

SEAC Meeting number: 54 **Meeting Date** July 4, 2017

Subject: Environment Clearance for Proposed Expansion in Residential and commercial Project at Village Walve, District Palghar, Maharashtra

General Information:

1.Name of Project	Narang Urbane Housing Forum with Group Housing Scheme
2.Type of institution	Private
3.Name of Project Proponent	Yamuna Realty Pvt. Ltd.
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd. Thane, Maharahstra
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	We had Received Environmental Clearance file no. SEAC-2012/CR.542/TC-2 on dated 11th December 2014
8.Location of the project	Survey no 29/1, 30, 31, 32, 33, 34, 35, 36, 37, 38/1, 39, 42 at village Walve, Taluka and District Palghar Maharashtra
9.Taluka	Palghar
10.Village	Walve
11.Area of the project	Town Planning Palghar
12.IOD/IOA/Concession/Plan Approval Number	N.A. permission received from Tehsildar Palghar dated 02/04/2012
	IOD/IOA/Concession/Plan Approval Number: N.A. file no. 2/N.N.P/S.R./12/2011 on dated 02/04/2012
	Approved Built-up Area: 227980
13.Note on the initiated work (If applicable)	Yes , We had received Environment Clearance on dated 11th December 2014. As per EC reference we started work on site. 15 Bungalows are under construction
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	2,06,140
16.Deductions	1,030
17.Net Plot area	2,05,110
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,93,362
	b) Non FSI area (sq. m.): 21,580
	c) Total BUA area (sq. m.): 2,14,942
19.Total ground coverage (m2)	56,957
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	28
21.Estimated cost of the project	3900000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	TWIN BLOCK	Gr +1 FLOOR	6.75
2	ZINC BLOCK type PB	Gr +2 FLOOR	9.45
3	EMERGE BLOCK	Gr + 4 floor	14.85
4	SUPER BLOCK	Gr + 4 floor	14.85
5	FARM BLOCK	Gr + 4 floor	14.85
6	ENERGY BLOCK	Gr + 4 floor	14.85
7	LENS BLOCK	Gr + 4 floor	14.85
8	SCHOOL	Gr +3 Floor	15
9	FIRST AID CLINIC	stilt + 3 floor	14.10
10	COMMERCIAL CENTRE	Gr + 2 floor	11.75
11	COMMUNITY CENTER	Ground floor	4.10
12	CLUB HOUSE	Gr + 1floor	8.85
13	SHOPS	Ground floor	4.50
14	ZINC BLOCK type A	Gr+ 1 floor	6.45

15	ZINC BLOCK type A	Gr+ 1 floor	6.45

23.Number of tenants and shops	Bungalows + flats : 343 + 2,575 Shop:67
24.Number of expected residents / users	17,568 nos.
25.Tenant density per hectare	149/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	15 m D.P. road and Internal roads : 15m, 12m & 9m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.1 m and 9.5 m
29.Existing structure (s) if any	No
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**	Surya River
	Fresh water (CMD):	2,174
	Recycled water - Flushing (CMD):	1,047
	Recycled water - Gardening (CMD):	125
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	3,174
	Fire fighting - Underground water tank(CMD):	Not Applicable
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	604

Wet season:	**Source of water**	Surya River
	Fresh water (CMD):	2,174
	Recycled water - Flushing (CMD):	1,047
	Recycled water - Gardening (CMD):	73
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	3,174
	Fire fighting - Underground water tank(CMD):	Not Applicable
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	655
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.5 m to 3.0 m
	Size and no of RWH tank(s) and Quantity:	20 nos. of Holding tanks having variable sizes and total quantity is 1,717 m3
	Location of the RWH tank(s):	Below the ground level
	Quantity of recharge pits:	20 nos.
	Size of recharge pits :	Size of surface recharge pit is 1m * 1m * 2m and Size of terrace recharge pit is 1m * 1m * 2.4m
	Budgetary allocation (Capital cost) :	Rs.38 Lakh
	Budgetary allocation (O & M cost) :	Rs.4 Lakh/year
	Details of UGT tanks if any :	Under ground water tank capacity - 84 m3 each Super Block * 8 nos tank Emerge Block * 7 nos tank Lens Block * 5 nos tank Amenity Block * 1 nos tank Farm Block * 3 nos tank Zink Block * 1 nos tank Energy Block * 3 nos tank
35.Storm water drainage	**Natural water drainage pattern:**	Along the roadside
	Quantity of storm water:	5.7261 m3/sec
	Size of SWD:	100/150 mm dia. pipe or 1.25m*1.1m channel size

Sewage and Waste water	**Sewage generation in KLD:**	1,830
	STP technology:	SBR technology
	Capacity of STP (CMD):	Variable STP's from size STP 1 -55 m3/day , STP 2 -131 m3/day , STP 3 -162 m3/day ,STP 4 -234 m3/day ,STP 5 -242 m3/day ,STP 6 -483m3/day ,STP 7 -702 m3/day ,
	Location & area of the STP:	Above Ground level
	Budgetary allocation (Capital cost):	Rs.300 Lakh
	Budgetary allocation (O & M cost):	Rs.3 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1,36,697 m3 (Excavation and top soil)
	Disposal of the construction waste debris:	Used for back filling and landscape
Waste generation in the operation Phase:	**Dry waste:**	1,670 kg/day
	Wet waste:	3,037 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Non-infectious waste - 21.25 kg/day, Infectious but not hazardous - 2.25 kg/day, Hazardous waste - 1.25 kg/day
	STP Sludge (Dry sludge):	18 kg/day
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated and disposal of the recyclers
	Wet waste:	Wet garbage will be composted and used as organic manure for landscaping
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Biomedical waste will be sent to biomedical waste disposal centre
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	on ground
	Area for the storage of waste & other material:	507 sq.mt
	Area for machinery:	70 sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.100 Lakh
	O & M cost:	Rs.1.5 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		

43.Green Belt Development	**Total RG area :**	20513
	No of trees to be cut :	123
	Number of trees to be planted :	280
	List of proposed native trees :	11
	Timeline for completion of plantation :	1 to 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	Terminalia catappa	Desi Badam	20	Fruit bearing tree
2	Ziziphus mauritiana	Ber	22	Fruit bearing tree
3	Ficus religiosa	Pimpal/Peepal	24	shady
4	Polyathia longifolia	False Ashoka /Asupalav	28	Aesthetic
5	Garcinia indica	kokum	29	Fruit bearing tree
6	Terminalia arjuna	Arjun	30	Aesthetic
7	Ficus carica	Anjeer	28	Fruit bearing tree
8	Caryota urenus	solitary Fishtail Palm	25	Aesthetic
9	Cassia Fistula	Golden Rain Tree/ Bahava	28	Aesthetic
10	Michelia champaka	Chapha/Champa	26	Aesthetic
11	Azadirachta indica	Neem	20	Medicinal
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	300 kVA
	DG set as Power back-up during construction phase	1 no. * 125 kVA
	During Operation phase (Connected load):	28127
	During Operation phase (Demand load):	9422
	Transformer:	630 kVA* 19 nos
	DG set as Power back-up during operation phase:	600 kVA* 4 nos
	Fuel used:	As per requirement
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Solar Street light are Proposed for common areas as open spaces and pathways, RG etc.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED	> 1% Saving

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 300 Lakh
	O & M cost:	Rs. 3 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, colour, odour, turbidity Total hardenss, metal	0.15
2	Air and Noise Monitoring	SPM, SO2, NO2	1.8
3	Water Monitoring	pH, colour, odour, turbidity Total hardenss, metal	0.6
4	Site sanitation	Disinfection	0.18
5	Gardening set up	Soil and water	0.20
6	Disinfection pest control	Disinfection	0.10
7	First Aid Facility	First Aid Box	0.10
8	Health Check up	Weekly	0.10
9	Training and awaraness	Daily	0.30
10	Personal protective equipment	Safety Jacket, Safety Shoes, Helmet, Belt	3.5
11	Labour hutments	LPG Gas for Cooking	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	Sewage treatment Plant	7 nos of STP having total capacity 2009 KLD	300	3
2	Water treatment plant	Construction and maintenance	240	2.4
3	Landscape development	RG area	290	2.9
4	Solid Waste management	Composting	100	1.5
5	Rain Water harvesting	Channelizing and maintenance of Rain water harvesting tank	38	4
6	Storm water	Channelizing and maintenance of drainage line	40	4
7	Energy Conservation	Solar panels and LED	300	3
8	Fire Fighting	Fire extinguisher and sand bucket	5.5	0.10
9	Environment monitoring	Air, water, soil and noise monitoring	15	2.4

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:	1 no of junction - Mahagaon approx 3 to 4 km
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	48,161 sq.mt
	Area per car:	30 sq.mt
	Area per car:	30 sq.mt
	Number of 2-Wheelers as approved by competent authority:	2-Wheeler 3,667 nos and cycles - 4155 nos
	Number of 4-Wheelers as approved by competent authority:	4-Wheelers 815 nos
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	9m, 12m and 15 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) B1
	Court cases pending if any	Not Applicable
	Other Relevant Informations	We had received the Environment Clearance form Government of Maharashtra on Dated: 11th December 2014 and we have started construction as per approved plan received from Town Planning.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

Brief information of the project by SEAC

PP, Mr. Amit Narang & Architect Mr. Jasprit Mehta were present during the meeting along with environmental consultant M/s Mahabal enviro engineers. PP informed that EC was received on 11/12/2014. Proposal is for expansion of the project.

PP informed that total plot area is 2,06,140 sq. m with total BUA (FSI +Non FSI) of 2,14,942 (FSI- 1,93,362 sq. m, Non FSI- 21,580 sq. m). PP also informed that, they have started the construction as per received the Environment Clearance dated 11.12.2014.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit stage of compliance of EC till date.
2) PP to submit details of mechanisms placed on site for recycle/reuse of treated waste water. Also to submit layout scheme superimposed on project layout.
3) 3. PP informed that, the project is zero discharge project. PP to ensure the STP discharge standards should be BOD-5mg/day, COD-10 mg/day and suspended solids-20 mg/day
4) PP to submit details of mechanisms of MSW handling from collection to disposal.
5) PP to ensure that STP design should be with holding pond.
6) PP to superimpose sewer line, storm water line & treated water line on master layout plan of project.
7) PP to submit details regarding mechanism for MSW collection to distribution of end product (manure).
8) PP to submit detail landscape plan.
9) PP to provide 12% of renewable energy from total demand of energy. May provide solar water heater in every unit. PP to submit the same & upload on website.
10) PP to submit & upload the project specific quantitative EMP & DMP.
11) PP to submit details of firefighting mechanism by SWEPT PATH analysis for cars & fire tender movement.
12) PP to submit details of parking, area per car area, number of two wheeler, cycle as per norms etc.
13) PP to also refer standard ToR published by MoEF vide order dated 10/04/15 in addition to above.
14) PP to upload the plans , duly stamped & singed , submitted for approval to the local body, Disaster Management Plan, Environmental Management Plan, traffic study and other above said compliances etc. on the website of ec.mpcb.in

FINAL RECOMMENDATION

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