54th SEAC-II Meeting Day-3 (5/7/2017)

SEAC Meeting number: 54 **Meeting Date** July 5, 2017

Subject: Environment Clearance for For proposed redevelopment project located at plot bearing C.T.S. No. 838-B & 838-B/1 to 90, 840,841(pt), 841/1 to 53 & 58 to 63. S.V. Road Malad (W) Mumbai.

General Information:

1.Name of Project	Residential development Project at Malad (West), Mumbai.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Niraj Vora
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Housing project/ SRA Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing residential project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Environment clearance received for proposed development vide letter number SEAC-2010/CR.590/TC.2 dated 18th October, 2011.
8.Location of the project	Plot bearing C.T.S. No. 838-B & 838-B/1 to 90, 840,841(pt), 841/1 to 53 & 58 to 63. S.V. Road Malad (W) Mumbai.
9.Taluka	Mumbai
10.Village	Malad
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOA
	IOD/IOA/Concession/Plan Approval Number: IOA Letter number: SRA/ENL/1924/PN/PC/AP
	Approved Built-up Area: 17
13.Note on the initiated work (If applicable)	As per previous EC granted. Construction of 3 rehab buildings completed in the year 2012 & construction of Sale building completed till 1st podium.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	SRA/ENL/838/PN/PL/LOI
15.Total Plot Area (sq. m.)	7,511.28 sq. m
16.Deductions	1198.31 sq. m
17.Net Plot area	6312.97 sq. m
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20097.32 sq.m
	b) Non FSI area (sq. m.): 21873.75 sq. m
	c) Total BUA area (sq. m.): 41971.07
19.Total ground coverage (m2)	13909.77 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	54 %
21.Estimated cost of the project	1250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab building 1	Ground floor + 7 upper floor	23.65 mtr
2	Rehab building 2	Ground floor + 7 upper floor	23.65 mtr
3	Rehab building 3	Ground floor + 8 upper floor	26.55 mtr
4	Sale building	Basement + ground + 4 podium floors+ 5th E-LVL+ 27 upper floors	110.90 mtr

23.Number of tenants and shops	190
24.Number of expected residents / users	861
25.Tenant density per hectare	253
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	27.45 mt wide S.V road and 9.00 mt wide internal road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Maximum 12.00 mt and minimum 6.00 mt
29.Existing structure (s) if any	Not Applicable
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Municipal Corporation of Greater Mumbai (MCGM)
	Fresh water (CMD):	91
	Recycled water - Flushing (CMD):	42
	Recycled water - Gardening (CMD):	4.5
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	139.5
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	0
Wet season:	**Source of water**	Municipal Corporation of Greater Mumbai (MCGM)
	Fresh water (CMD):	91
	Recycled water - Flushing (CMD):	42
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	135
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	0
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
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 m
	Size and no of RWH tank(s) and Quantity:	2 no. of RWH tank of capacity 42 cum
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	2 recharge pits
	Size of recharge pits :	80 cum
	Budgetary allocation (Capital cost) :	10
	Budgetary allocation (O & M cost) :	1.5
	Details of UGT tanks if any :	Basement
35.Storm water drainage	**Natural water drainage pattern:**	There is no water drain/ natural nallah passing through the plot. Hence the development will not affect the natural drainage system
	Quantity of storm water:	34.76 cum/hr
	Size of SWD:	450 MM
Sewage and Waste water	**Sewage generation in KLD:**	111 cmd
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. of STP of capacity 112 cmd
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	80
	Budgetary allocation (O & M cost):	12

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 MT/day
	Disposal of the construction waste debris:	used for filling the plot and maintaining natural slopes
Waste generation in the operation Phase:	**Dry waste:**	130 kg/day
	Wet waste:	300 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	6 kg/day
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	dry waste will be handed over to recyclers
	Wet waste:	Organic waste convertor
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	mix with wet waste and converted into compost
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	30 sq. m
	Area for machinery:	Same as above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15
	O & M cost:	2.25

37.Effluent Charecterestics

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

Amount of effluent generation (CMD):	Not applicable
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 :**	1295.84 sq. m
	No of trees to be cut :	3 Nos.
	Number of trees to be planted :	75 No.
	List of proposed native trees :	9 nos.
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mangifera indica	Mango	10	Native, Asthetic plant
2	Delonix regia	Gulmohor	8	Native, Asthetic plant
3	Terminalia catappa	Badam	10	Native, Medicinal plant
4	Azadiracta indica	Neem	8	Native, Medicinal plant
5	Polyalthia longifolia	Ashoka	14	Native, Asthetic plant
6	Cocus nucifera	Naral	10	Native, Fruits used in cooking
7	Samania saman	Rain tree	4	Native, Asthetic plant
8	Manikara zapota	Chikoo	8	Native, fruits used to make juice.
9	Announna squamosa	Sitafal	3	Native, fruits used to make juice.
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 :**	Tata/ Reliance
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	Not applicable
	During Operation phase (Connected load):	6478.01 KVA
	During Operation phase (Demand load):	2745.06 KVA
	Transformer:	Not applicable
	DG set as Power back-up during operation phase:	1 no. of DG of capacity 630 KVA
	Fuel used:	High speed diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

• Energy efficient fluorescent bulb lights which give approximately 30 % more light output for the same Watts consumed & therefore require less no. of fixtures & Corresponding lower point Wiring costs for common areas.
• Compact fluorescent lamps will be incorporated in Corridors. toilets & all circulation areas.
• Copper conductor cables are specified for sizes of 16 Sq. & below, this will reduce losses & improve reliability.
• All cables are de-rated to avoid heating during use. This also indirectly reduces losses & improves reliability.
• Wherever techno-commercially appropriate, variable frequency drives have been incorporated on motor feeders which will save considerable energy.
• Power factor for the complete electrical system is being maintained close to unity. This power will reduce distribution losses in the installation

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saving	15.66%

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:**	50.4 lakhs
	O & M cost:	7.56 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	Capital cost	Not applicable	72

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	Not applicable	80	12
2	Solid Waste Management	Not applicable	15	2.25
3	Rain Water harvesting	Not applicable	10	1.5
4	Green Belt	Not applicable	5	0.75
5	Energy saving features	Not applicable	50.4	7.56
6	Environment Management Plan	Not applicable	0	1.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Site is well connected to S . V. Road

Parking details:	**Number and area of basement:**	1 basement of 2,405.14 sq.m
	Number and area of podia:	4 podium floors of 9125.88 sq.m
	Total Parking area:	11,531.02 sq.m
	Area per car:	2.50
	Area per car:	2.50
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	187
	Public Transport:	Not applicable
	Width of all Internal roads (m):	6 mts.
	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) b 2
	Court cases pending if any	Not applicable
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	26-04-2017

Brief information of the project by SEAC

PP, Mr.Parag Shah & Architect Mr. Shrihari were present during the meeting along with environmental consultant M/s Aditya Environmental Services Pvt. Ltd

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. PP informed that the earlier EC was obtained on 18th October 2011 & the expansion proposal was also considered earlier in 45th meeting of SEAC II. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed.

The project considered under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1,1A, synopsis of compliances, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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 to revise Environment Management & Monitoring Plan (EMP). PP to ensure that the EMP should be Project Specific & Quantitative indicating measurable targets.
2) PP to submit Storm water calculation & plan of Storm water disposal system.
3) PP to submit cross section plan for podium & fire tender movement.
4) PP to upload all the above mentioned documents on website.

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 5, 2017

Subject: Environment Clearance for For proposed redevelopment project located at plot bearing C.T.S. No. 838-B & 838-B/1 to 90, 840,841(pt), 841/1 to 53 & 58 to 63. S.V. Road Malad (W) Mumbai.

General Information:

1.Name of Project	Residential development Project at Malad (West), Mumbai.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Niraj Vora
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Housing project/ SRA Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing residential project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Environment clearance received for proposed development vide letter number SEAC-2010/CR.590/TC.2 dated 18th October, 2011.
8.Location of the project	Plot bearing C.T.S. No. 838-B & 838-B/1 to 90, 840,841(pt), 841/1 to 53 & 58 to 63. S.V. Road Malad (W) Mumbai.
9.Taluka	Mumbai
10.Village	Malad
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOA
	IOD/IOA/Concession/Plan Approval Number: IOA Letter number: SRA/ENL/1924/PN/PC/AP
	Approved Built-up Area: 17
13.Note on the initiated work (If applicable)	As per previous EC granted. Construction of 3 rehab buildings completed in the year 2012 & construction of Sale building completed till 1st podium.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	SRA/ENL/838/PN/PL/LOI
15.Total Plot Area (sq. m.)	7,511.28 sq. m
16.Deductions	1198.31 sq. m
17.Net Plot area	6312.97 sq. m
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20097.32 sq.m
	b) Non FSI area (sq. m.): 21873.75 sq. m
	c) Total BUA area (sq. m.): 41971.07
19.Total ground coverage (m2)	13909.77 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	54 %
21.Estimated cost of the project	1250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab building 1	Ground floor + 7 upper floor	23.65 mtr
2	Rehab building 2	Ground floor + 7 upper floor	23.65 mtr
3	Rehab building 3	Ground floor + 8 upper floor	26.55 mtr
4	Sale building	Basement + ground + 4 podium floors+ 5th E-LVL+ 27 upper floors	110.90 mtr

23.Number of tenants and shops	190
24.Number of expected residents / users	861
25.Tenant density per hectare	253
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	27.45 mt wide S.V road and 9.00 mt wide internal road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Maximum 12.00 mt and minimum 6.00 mt
29.Existing structure (s) if any	Not Applicable
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Municipal Corporation of Greater Mumbai (MCGM)
	Fresh water (CMD):	91
	Recycled water - Flushing (CMD):	42
	Recycled water - Gardening (CMD):	4.5
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	139.5
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	0
Wet season:	**Source of water**	Municipal Corporation of Greater Mumbai (MCGM)
	Fresh water (CMD):	91
	Recycled water - Flushing (CMD):	42
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	135
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	0
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
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 m
	Size and no of RWH tank(s) and Quantity:	2 no. of RWH tank of capacity 42 cum
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	2 recharge pits
	Size of recharge pits :	80 cum
	Budgetary allocation (Capital cost) :	10
	Budgetary allocation (O & M cost) :	1.5
	Details of UGT tanks if any :	Basement
35.Storm water drainage	**Natural water drainage pattern:**	There is no water drain/ natural nallah passing through the plot. Hence the development will not affect the natural drainage system
	Quantity of storm water:	34.76 cum/hr
	Size of SWD:	450 MM
Sewage and Waste water	**Sewage generation in KLD:**	111 cmd
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. of STP of capacity 112 cmd
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	80
	Budgetary allocation (O & M cost):	12

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 MT/day
	Disposal of the construction waste debris:	used for filling the plot and maintaining natural slopes
Waste generation in the operation Phase:	**Dry waste:**	130 kg/day
	Wet waste:	300 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	6 kg/day
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	dry waste will be handed over to recyclers
	Wet waste:	Organic waste convertor
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	mix with wet waste and converted into compost
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	30 sq. m
	Area for machinery:	Same as above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15
	O & M cost:	2.25

37.Effluent Charecterestics

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

Amount of effluent generation (CMD):	Not applicable
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 :	1295.84 sq. m
	No of trees to be cut :	3 Nos.
	Number of trees to be planted :	75 No.
	List of proposed native trees :	9 nos.
	Timeline for completion of plantation :	Till operation phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mangifera indica	Mango	10	Native, Asthetic plant
2	Delonix regia	Gulmohor	8	Native, Asthetic plant
3	Terminalia catappa	Badam	10	Native, Medicinal plant
4	Azadiracta indica	Neem	8	Native, Medicinal plant
5	Polyalthia longifolia	Ashoka	14	Native, Asthetic plant
6	Cocus nucifera	Naral	10	Native, Fruits used in cooking
7	Samania saman	Rain tree	4	Native, Asthetic plant
8	Manikara zapota	Chikoo	8	Native, fruits used to make juice.
9	Announna squamosa	Sitafal	3	Native, fruits used to make juice.
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 :	Tata/ Reliance
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	Not applicable
	During Operation phase (Connected load):	6478.01 KVA
	During Operation phase (Demand load):	2745.06 KVA
	Transformer:	Not applicable
	DG set as Power back-up during operation phase:	1 no. of DG of capacity 630 KVA
	Fuel used:	High speed diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

• Energy efficient fluorescent bulb lights which give approximately 30 % more light output for the same Watts consumed & therefore require less no. of fixtures & Corresponding lower point Wiring costs for common areas.
• Compact fluorescent lamps will be incorporated in Corridors. toilets & all circulation areas.
• Copper conductor cables are specified for sizes of 16 Sq. & below, this will reduce losses & improve reliability.
• All cables are de-rated to avoid heating during use. This also indirectly reduces losses & improves reliability.
• Wherever techno-commercially appropriate, variable frequency drives have been incorporated on motor feeders which will save considerable energy.
• Power factor for the complete electrical system is being maintained close to unity. This power will reduce distribution losses in the installation

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saving	15.66%

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:	50.4 lakhs
	O & M cost:	7.56 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	Capital cost	Not applicable	72

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	Not applicable	80	12
2	Solid Waste Management	Not applicable	15	2.25
3	Rain Water harvesting	Not applicable	10	1.5
4	Green Belt	Not applicable	5	0.75
5	Energy saving features	Not applicable	50.4	7.56
6	Environment Management Plan	Not applicable	0	1.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Site is well connected to S . V. Road

Parking details:	**Number and area of basement:**	1 basement of 2,405.14 sq.m
	Number and area of podia:	4 podium floors of 9125.88 sq.m
	Total Parking area:	11,531.02 sq.m
	Area per car:	2.50
	Area per car:	2.50
	Number of 2-Wheelers as approved by competent authority:	Not applicable
	Number of 4-Wheelers as approved by competent authority:	187
	Public Transport:	Not applicable
	Width of all Internal roads (m):	6 mts.
	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) b 2
	Court cases pending if any	Not applicable
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	26-04-2017

Brief information of the project by SEAC

PP, Mr.Parag Shah & Architect Mr. Shrihari were present during the meeting along with environmental consultant M/s Aditya Environmental Services Pvt. Ltd

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. PP informed that the earlier EC was obtained on 18th October 2011 & the expansion proposal was also considered earlier in 45th meeting of SEAC II. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed.

The project considered under 8a (B2) category of EIA Notification, 2006. Consolidated statements, form 1,1A, synopsis of compliances, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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 to revise Environment Management & Monitoring Plan (EMP). PP to ensure that the EMP should be Project Specific & Quantitative indicating measurable targets.
2) PP to submit Storm water calculation & plan of Storm water disposal system.
3) PP to submit cross section plan for podium & fire tender movement.
4) PP to upload all the above mentioned documents on website.

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 5, 2017

Subject: Environment Clearance for "LEMON TREE PREMIER" HOTEL at Sahar Road, CSI Airport, Andheri

General Information:

1.Name of Project	"LEMON TREE PREMIER" HOTEL at Sahar Road, CSI Airport, Andheri Mumbai.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Mustajab Haider
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	Development of Star Category Hotel, Retail, Assembly & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No. NS C-04, GVK Sky City, CTS No. 145A,Village Sahar, Sahar Road, CSI Airport, Mumbai, Maharashtra -400 099.
9.Taluka	Andheri
10.Village	Sahar
11.Area of the project	Chhatrapati Shivaji International Airport Notified Area (CSIANA) Local Planning Authority: Mumbai Metropolitan Region Development Authority (MMRDA). Municipal Corporation: Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	In principle approval received from MMRDA dt. 26.8.2016
	IOD/IOA/Concession/Plan Approval Number: TCP (P-2) /MIAL/CC/3.23/1365/2016
	Approved Built-up Area: 40219.65
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.)	9463.45 Sq. mt.
16.Deductions	NA
17.Net Plot area	9463.45 Sq. mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 37056.28 sq.mt.
	b) Non FSI area (sq. m.): 26887.83 Sq.mt.
	c) Total BUA area (sq. m.): 63944.11 Sq.mt.
19.Total ground coverage (m2)	4742.25 Sq. mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50%
21.Estimated cost of the project	4286000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A (Hotel)	3 Basements + Ground + 10 Upper Floors	37.59 mt. (up to terrace level)
2	Wing B (Assembly)	3 Basements + Ground + 1 Upper Floor	10.35 mt. (up to terrace level
3	Wing C (Offices)	3 Basements + Ground + 9 Upper Floors	38.44 mt. (up to terrace level)

23.Number of tenants and shops	Hotel Rooms: 577 nos. Retail, Assembly & Commercial
24.Number of expected residents / users	3853 Nos. (Including Hotel rooms, Commercial and Assembly)
25.Tenant density per hectare	NA
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	27.45 m wide Sahar Road on West side and proposed 12 m. wide road on North side
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.60 mt.
29.Existing structure (s) if any	The site is an open land
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	M.C.G.M. /Tanker water
	Fresh water (CMD):	For Domestic - 223 KLD, For Laundry - 50 KLD, For Cooling Tower make up + DG cooling - 27 KLD
	Recycled water - Flushing (CMD):	For Flushing - 133 KLD, Cooling Tower make up + DG cooling - 177 KLD
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	623
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	60
	Excess treated water	Nil
Wet season:	**Source of water**	M.C.G.M. /Tanker water/ RWH
	Fresh water (CMD):	For Domestic - 223 KLD, For Laundry - 50 KLD
	Recycled water - Flushing (CMD):	For Flushing - 133 KLD, Cooling Tower make up + DG cooling - 138 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	547
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	60
	Excess treated water	49
Details of Swimming pool (If any)	Swimming pool volume - 240 m3	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Between 2.5 m and 3.5 m below ground surface
	Size and no of RWH tank(s) and Quantity:	Rain Water Collection tank of capacity 272 KL
	Location of the RWH tank(s):	2nd and 3rd Basement
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs.30.20 Lacs
	Budgetary allocation (O & M cost) :	Rs. 1.42 Lakcs/annum
	Details of UGT tanks if any :	Location of UGT tanks - 2nd and 3rd Basement
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged in to the external drain
	Quantity of storm water:	0.357 m3/sec
	Size of SWD:	Carrying capacity of internal drain: 0.533 m3/sec
Sewage and Waste water	**Sewage generation in KLD:**	Sewage: 311 KLD , Laundry effluent: 45 KLD
	STP technology:	For Sewage: MBBR (Moving Bed Bio Reactor), For Laundry Effluent: Primary treatment + STP
	Capacity of STP (CMD):	360 KL (including Laundry effluent)
	Location & area of the STP:	Basement level
	Budgetary allocation (Capital cost):	Rs. 85.15 Lacs (including primary treatment of laundry effluent)
	Budgetary allocation (O & M cost):	Rs. 16.56 Lacs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated earth (111912 Cum) shall be partly reused for back filling on site and partly disposed to authorized landfill site with permission of M.C.G.M.
	Disposal of the construction waste debris:	Construction waste shall be partly reused and partly disposed to the authorized site with the permission of M.C.G.M.
Waste generation in the operation Phase:	**Dry waste:**	469 Kg/day
	Wet waste:	501 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	47 Kg/day
	Others if any:	E - Waste - 47 Kg/month

Mode of Disposal of waste:	**Dry waste:**	Non recyclable: To M.C.G.M. , Recyclable: To recyclers
	Wet waste:	Composting in Organic Waste Converter (OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	As manure
	Others if any:	E - waste: To authorized recyclers
Area requirement:	**Location(s):**	1st Basement
	Area for the storage of waste & other material:	115 Sq.mt.
	Area for machinery:	15 Sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 9.00 Lacs
	O & M cost:	Rs. 2.35 Lacs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	1420.42 Sq.mt.
	No of trees to be cut :	Trees to transplanted - 88 Nos., Trees to be cut - 85 Nos.
	Number of trees to be planted :	109 Nos.
	List of proposed native trees :	Given in list of proposed plantation on ground
	Timeline for completion of plantation :	Before occupation

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Plumeria alba	Champa	12	Medium sized evergreen tree, strongly fragrant yellow flowers used in perfume industry, Butterfly host plant
2	Plumeria rubra	Chafa	16	Shrub or small tree Flower colours range from the common pink to white with shades of yellow in the centre of the flower. They tolerate a wide variety of soils, from acid to alkaline and sandy to clay.
3	Polyalthia pendula	Ashoka	66	It is a lofty evergreen tree. It is commonly planted due to its effectiveness in alleviating noise pollution. The leaves are larval food plant of the kite swallowtails. The leaves are use for ornamental decoration and are used in festivals.
4	Caryota	Fishtail palm	15	Solitary-trunked tall evergreen tree. Pulp of the fully grown up plant is cut, sun dried, powdered and is edible. Ornamental 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 :**	TATA Power
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	4365 KW
	During Operation phase (Demand load):	2859 KW
	Transformer:	Capacity-2000 kVA, Voltage rating - 11 / 0.415 KV, Type of construction-Resin Cast Dry Type, Cooling- Air Cooled (AN – Air Natural), OLTC: Tap Range +5% to -15% in steps of 1.25%
	DG set as Power back-up during operation phase:	3 Nos. of 1250 kVA each
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- Use of Solar PV panels
- Use of 15 w and 18 w LED
- Use of Energy efficient chillers & pumps
- Use of BEE Certified Motors
- Use of Group controls and Variable Voltage, Variable Frequency drives
- Use of Energy Efficient motors

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• Use of Solar PV panels • Use of 15 w and 18 w LED • Use of Energy efficient chillers & pumps • Use of BEE Certified Motors • Use of Group controls and Variable Voltage, Variable Frequency drives • Use of Energy Efficient motors Energy Saving - 20%	20%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 20.00 Lacs
	O & M cost:	Rs. 2.00 Lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust Suppression	5.40
2	Air Environment	Air & Noise Quality monitoring - Onsite sensors	10.00
3	Air Environment	Air & Noise Quality monitoring - By MOEF Approved Laboratory	0.66
4	Water Environment	Drinking water analysis	0.54
5	Land Environment	Site Sanitation	5.00
6	Health & Hygiene	Disinfection at site	3.60

7	Health & Hygiene	Health Check up of workers	13.50
8	Cost towards disaster management	--	260.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Environment & Biological Environment	Cost for Gardening	7.81	1.20
2	Air Environment & Biological Environment	Cost for Ambient air & Noise Monitoring	No set up cost is involved	0.22
3	Air Environment & Biological Environment	Cost for DG Stack Exhaust Monitoring	No set up cost is involved	0.14
4	Air Environment & Biological Environment	Air cleaning system	10.00	1.00
5	Air Environment & Biological Environment	Cost for ESP scrubber	10.00	1.50
6	Water Environment - Waste water treatment	Cost for Sewage Treatment Plant + preprimary treatment to laundry effluent	67.15	15.53
7	Water Environment - Waste water treatment	Cost for waste water Monitoring - On site sensors	18.00	1.00
8	Water Environment - Waste water treatment	Cost for waste water Monitoring - By MoEF approved Laboratory	No set up cost is involved	0.03
9	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for RWH tank	27.20	1.36
10	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for rain water	3.0	0.01
11	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for rainwater Monitoring	No set up cost is involved	0.05
12	Land Environment (Solid Waste Management)	Cost for treatment of biodegradable garbage in OWC	9.00	2.27
13	Land Environment (Solid Waste Management)	Cost for monitoring of OWC manure	No set up cost is involved	0.08
14	Energy Conservation	Solar system	20.00	2.00
15	Cost towards Disaster management	--	1585.50	98.68
16	Building Management System	--	140.00	8.00

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Hotel - 1 Entry & 1 Exit, Function Hall - 1 Entry & 1 Exist, Pedestrian - 3 Entries & 2 Exits, Services/Basement/Office - 1 Entry & 1 Exit
Parking details:	**Number and area of basement:**	3 Basements
	Number and area of podia:	NA
	Total Parking area:	17087.88 Sq. mt.
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	Required - Nil, Provided - 60 nos.
	Number of 4-Wheelers as approved by competent authority:	4 Wheeler: Required - 508 nos. , Provided - 510 nos. , Handicapped: Required - Nil, Provide - 2 Nos.
	Public Transport:	Required - 6 nos., Provided - 6 Nos.
	Width of all Internal roads (m):	Minimum 6.00 mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park : Approx. 5.0 Km (Aerial distance)
	Category as per schedule of EIA Notification sheet	Category 8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	21-11-2015

Brief information of the project by SEAC

PP, Mr. Hyder Mustaffaz, Architect Mr. Marcon Regi & GVK representative Mr. Sharma were present during the meeting along with environmental consultant M/s ULTRA-TECH.

It was noted by the committee that, the project was considered in 49th meeting of SEAC-II held on 26th August, 2016. Committee noted that the project is under 8a (B2) category of EIA Notification, 2006. Compliance, Consolidated statements, form 1, 1A, presentation & plans submitted are taken on the record.

Compliance submitted by PP for 10 points was found satisfactory. Committee asked PP to upload the all documents on website.

DECISION OF SEAC

After deliberation, Committee decided to recommend the proposal for Environmental Clearance to SEIAA.
Specific Conditions by SEAC:
FINAL RECOMMENDATION
SEAC-II have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

Subject: Environment Clearance for "AARADHYA-NINE" Proposed Redevelopment Project

General Information:

1.Name of Project	"AARADHYA-NINE" Proposed Redevelopment Project
2.Type of institution	Private
3.Name of Project Proponent	MICL Realty LLP
4.Name of Consultant	Aditya Environmental Services 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	Located at Plot No. 154,156, 158 Naidu Colony, Ghatkopar, Mumbai.
9.Taluka	Mumbai
10.Village	Ghatkopar
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	YES, Proposed project is the redevelopment of MHADA plot NOC from the same is obtained & attached for your reference.
	IOD/IOA/Concession/Plan Approval Number: CHE/ES/2302/N/337(NEW)
	Approved Built-up Area: 15868.25
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	YES, Proposed project is the redevelopment of MHADA plot NOC from the same is obtained & attached for your reference.
15.Total Plot Area (sq. m.)	2461.71
16.Deductions	0
17.Net Plot area	2461.71
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 15375.07
	b) Non FSI area (sq. m.): 9932.59
	c) Total BUA area (sq. m.): 25307.66
19.Total ground coverage (m2)	1760
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	71.5
21.Estimated cost of the project	1650000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building type A & B	2 B + Gr + 1P+ 16 habitable floors	57.6
2	Building type C	2 B + Gr + 1P+ 18 habitable floors	63.4
3	Building Type D	U.G. services + Gr + 14 habitable floors	45.4

23.Number of tenants and shops	Building type A: 62 nos. Building type B: 62 nos. Building type C: 69 nos. Building type D: 55 nos. Total: 248 nos.
24.Number of expected residents / users	1240
25.Tenant density per hectare	5037
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12.2M WIDE MAIN ROAD
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12.2M WIDE MAIN ROAD
29.Existing structure (s) if any	There were 3 residential buildings of Ground + 3 UF housing 96 dwelling units which were demolished for the proposed redevelopment by the earlier developer.
30.Details of the demolition with disposal (If applicable)	The buildings were already demolished as per MCGM notice 354 of demolition.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	112
	Recycled water - Flushing (CMD):	55.8
	Recycled water - Gardening (CMD):	1.231
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	169.031
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	71.32
Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	112
	Recycled water - Flushing (CMD):	55.8
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	167.8
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	71.32
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:**	4m
	Size and no of RWH tank(s) and Quantity:	4.1 m x 3.1 m x 4 m
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	1
	Size of recharge pits :	4 m X 3.5 m X 4 m
	Budgetary allocation (Capital cost) :	600000
	Budgetary allocation (O & M cost) :	30000 per year
	Details of UGT tanks if any :	Domestic water tank, Rain water harvesting tank, Fire tank located below D wing ground floor.
35.Storm water drainage	**Natural water drainage pattern:**	Drainage pattern will be maintained
	Quantity of storm water:	0.135 cum/ sec
	Size of SWD:	0.135 cum/ sec
Sewage and Waste water	**Sewage generation in KLD:**	167.400
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. and 175 cmd
	Location & area of the STP:	Basement and 197.2
	Budgetary allocation (Capital cost):	60,00,000
	Budgetary allocation (O & M cost):	12,00,000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	NA
	Disposal of the construction waste debris:	used for filling the plot and maintaining natural slopes.
Waste generation in the operation Phase:	**Dry waste:**	186
	Wet waste:	434
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.2
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	segregation and sale of recyclables, inerts to approved landfill site.
	Wet waste:	biodegradable waste to compost
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.1
	Others if any:	NA
Area requirement:	**Location(s):**	basement
	Area for the storage of waste & other material:	54 sq.m
	Area for machinery:	54 sq.m area including machinery
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10
	O & M cost:	2

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 :**	MHADA RG layout is attached for your reference.
	No of trees to be cut :	9
	Number of trees to be planted :	27
	List of proposed native trees :	List is given as under
	Timeline for completion of plantation :	4 years from start of construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ziziphus mauritiana	Ber tree	4	spiny, evergreen shrub or small tree up to 15 m high
2	Cocos nucifera	Coconut	7	large palm, growing up to 30 m tall, with pinnate leaves 4–6 m (13–20 ft) long
3	Prunus dulcis	Badam	5	Leaves 3-5?, linear or slightly ovate, about 3-4 times longer than wide, with acute tips and finely serrate margins
4	Artocarpus heterophyllus	Fanas	6	Trees typically reach a height of 8–25 m (26–82 ft) and a canopy diameter of 3.5–6.7 m (11–22 ft) at 5 years of age.
5	Syzygium cumini	Jamun	5	flowering from March to April. The flowers are fragrant and small, about 5 mm in diameter
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 :**	Electricity supply board
	During Construction Phase: (Demand Load)	3147 KW
	DG set as Power back-up during construction phase	will be provided as per load requirement
	During Operation phase (Connected load):	4715 KW
	During Operation phase (Demand load):	2002 KW
	Transformer:	NA
	DG set as Power back-up during operation phase:	As per new rule we are providing alternate supply from other substation of nearby location
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Saving due to solar lighting for common area load:
saving in %: 60
saving in unit: 77
2. Saving due to solar lighting for staircase:
saving in %: 60
saving in unit: 18

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Saving Due to CFL Lamp, Saving Due to LED Lamp, Saving Due to Electronic Ballast, Saving Due to VFD, Saving Due to Solar Lighting	Average KWH/Day saving: 1318.67, Average KWH/Annual saving: 481314.32, Total saving saving: 481314, Saving in %: 26.81

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:**	50.66 lakhs/year approximate
	O & M cost:	5.06 lakh/year approximate

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Debris/Top soil Management	NA	67.80
2	Toilets for labour + drinking water + first aid arrangement	NA	10.50
3	Monitoring of Environmental Parameters	NA	02
4	Environmental Monitoring Cell	NA	20

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	NA	60	12
2	Solid Waste Management	NA	10	02
3	Rain Water Harvesting	NA	5	0.2
4	Rain Water Harvesting	NA	5	0.2
5	Energy saving features	NA	26	0.36

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Site is well connected to Barrister Nath Pai road at Ambedkar Chowk
Parking details:	**Number and area of basement:**	2 basements with 2402.90 sq.m area
	Number and area of podia:	1 podium with 1206.5 sq.m area
	Total Parking area:	5547.2 sq.m
	Area per car:	26.29
	Area per car:	26.29
	Number of 2-Wheelers as approved by competent authority:	8
	Number of 4-Wheelers as approved by competent authority:	190
	Public Transport:	NA
	Width of all Internal roads (m):	6.4m, 4.5m, 3.6m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	Not applicable
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

Brief information of the project by SEAC

PP, Mr. Ravi Yeole & Architect Ms. Priya Pole were present during the meeting along with environmental consultant M/s Aditya Environmental Services Pvt. Ltd.

PP informed that, the project involves redevelopment of 3 existing residential buildings (Ground + 3 Upper floors) for which plots of these three buildings have been amalgamated (i.e Plot No 154,156 & 158). PP also informed that these 3 existing buildings which were in dilapidated in conditions hence demolished consisted of 96 dwelling units by other developer. 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 informed that, total plot area is 2,461.71 Sq. m. comprising total built up area (FSI- 15,482.09Sq. m. +Non FSI- 9,825.57Sq. m) is 25,307.66Sq. m. 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 deferred and shall be considered further after the compliance of following observations submitted for reconsideration.

Specific Conditions by SEAC:

1) Evacuation time in basement/Stilt parking system appears to be more than hour. PP to restrict the car parks as per the norms to 151 and not to provide 190 car parks.
2) PP to revise the car parking design to reduce evacuation time to 30 min. lift parking in the basement is discouraged. PP to explore the puzzle parking or any other suitable alternate parking system. Accordingly
3) PP to revised DMP also.
4) PP to ensure adequate ventilation for STP proposed in basement.
5) PP to ensure that width of the fire tender movement from all sides should be more than 6 m and turning radius should be 9 meters

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC Meeting number: 54 **Meeting Date** July 5, 2017

Subject: Environment Clearance for Application for Proposed Residential & Commercial Project at villlage Sandor Taluka Vasai District Palghar Maharashtra

General Information:

1.Name of Project	Proposed Residential and Commercial Project by Ameya Townhomes Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Ankush Kotmire - Director
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., F-7, Road No. 21, Wagle Estate, Thane (West), Maharashtra
5.Type of project	Residential and Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	On land bearing S.No. 230, H.No. 1,2,3,4,5,6,7,8 S.No. 231, H.No 1,2,3,4,5,6,7,8,9 S.No. 235, H.No 1/2,2,3,4,5,6,7,8,9,10,11/1,11/2 S.No. 236, H.No 1, 2, 3, 7, 8, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, pt, 24, 25A, 25B, 27, 28, 29
9.Taluka	Vasai
10.Village	Sandor
11.Area of the project	Vasai Virar Municipal Corporation (VVMC)
12.IOD/IOA/Concession/Plan Approval Number	We received Class one certificate from collector office on dated 26.05.2016. We received NOC from Deputy Director Town Planning VVCMC having letter no VVCMC/TP/2910/2016-17 on dated 07.11.2016 and We apply for Commencement Certificate
	IOD/IOA/Concession/Plan Approval Number: We received Class one certificate from collector office on dated 26.05.2016. We received NOC from Deputy Director Town Planning VVCMC having letter no VVCMC/TP/2910/2016-17 on dated 07.11.2016 and We apply for Commencement Certificate
	Approved Built-up Area: 52692
13.Note on the initiated work (If applicable)	No work has been initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	We received NOC from Deputy Director Town Planning VVCMC having letter no VVCMC/TP/2910/2016-17 on dated 07.11.2016
15.Total Plot Area (sq. m.)	36,408.75 sq.mt.
16.Deductions	15,401.45 sq.mt.
17.Net Plot area	21,007.30 sq.mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 52,691.55 sq.mt.
	b) Non FSI area (sq. m.): 41,165.60 sq.mt.
	c) Total BUA area (sq. m.): 93,857.15 sq.mt.
19.Total ground coverage (m2)	4,646.47 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12.76%
21.Estimated cost of the project	2250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building no. 1 (C, D, E, F, G, H & I)	Ground + Podium + 17 floors	57.75
2	Building no. 2	Stilt + 4 floors	14.10
3	Building no. 3	Basement + Ground + 4 floors	19.20
4	Building no. 4 (A, B, C, D)	Ground + Podium + 21 floors	69.35
5	Building no. 5, CFC Building	Stilt + 4 floors	18.60

23.Number of tenants and shops	1,192 Tenants + 57 shops
24.Number of expected residents / users	5,960 Residents + 239 users (Shops) = 6,199
25.Tenant density per hectare	327/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)	40 m width DP Road & 12 m & 6 m Internal roads
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)	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**	Vasai Virar Municipal Corporation (VVMC)
	Fresh water (CMD):	546
	Recycled water - Flushing (CMD):	269
	Recycled water - Gardening (CMD):	54
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	815
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	303
Wet season:	**Source of water**	Vasai Virar Municipal Corporation (VVMC)
	Fresh water (CMD):	546
	Recycled water - Flushing (CMD):	269
	Recycled water - Gardening (CMD):	27
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	815
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	331

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:**	-
	Size and no of RWH tank(s) and Quantity:	3 no RWH Tank having capacity 43 m3 each
	Location of the RWH tank(s):	3 nos. rain water harvesting tank
	Quantity of recharge pits:	25 nos rainwater percolation cum collection wells
	Size of recharge pits :	1500 mm*3000 mm
	Budgetary allocation (Capital cost) :	Rs.28 Lakh
	Budgetary allocation (O & M cost) :	Rs.2 Lakh/year
	Details of UGT tanks if any :	UGT Capacity - (Vasai Virar Municipal Corporation (VVMC): Below Ground Domestic Tank Capacity: 565 m3 Flushing Tank Capacity: 295 m3 Fire Tank Capacity: 200 m3
35.Storm water drainage	**Natural water drainage pattern:**	Along road side drain
	Quantity of storm water:	1.37 m3/sec
	Size of SWD:	1.2 m * 1 m
Sewage and Waste water	**Sewage generation in KLD:**	652
	STP technology:	MBBR
	Capacity of STP (CMD):	700 m3/day (Stp-360 m3 /day + STP-340 m3 /day)
	Location & area of the STP:	On ground and 360 sq.mt. & 340 sq. mt.
	Budgetary allocation (Capital cost):	Rs.115 Lakh
	Budgetary allocation (O & M cost):	Rs.15 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1,836 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:**	606 kg/day
	Wet waste:	1,102 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	6 m3/day
	Others if any:	Inert Waste: 128 kg/day

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & 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 & gardening purposes inside the premise
	Others if any:	-
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	140 sq.mt
	Area for machinery:	3.75 sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.25 Lakh
	O & M cost:	Rs.3 Lakh/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	4,201.46 sq.mt.
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	696 Nos.
	List of proposed native trees :	19 Nos.
	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	Adina Cordifolia	Kadamb	28	Medicinal Plant
2	Areca Catechu	Supari	18	Medicinal Plant
3	Pterospermum Acerifolium	Muchkund	32	Medicinal Plant
4	Michelia Champaca	Sonchapha	58	Flower bearing plant
5	Terminalia elliptica	Aain	22	Flower bearing plant
6	Nyctanthus arborea	Parijatak	23	Flower bearing plant
7	Drypetes roxburghi	Putranjiva	19	Flower bearing plant
8	Moringa Oleifera	Shevga	30	Flower bearing plant
9	Terminalia chebula	Hirda	21	Medicinal plant
10	Azardirachta indica	Neem	25	Medicinal plant
11	Prosopis cineraria	Shami	94	Medicinal plant
12	Cordia dichotoma	Bhokar	33	Flower bearing plant
13	Bauhinia racemosa	Aapta	36	Flower bearing plant
14	Calophyllum inophyllum	Sultana Champa	18	Flower bearing plant
15	Memecylon umbellatum	Anjani	47	Flower bearing plant
16	Mimusops elengi	Bakul	22	Medicinal plant
17	Mangifera indica	Amba	20	Fruit bearing plant
18	sapindus laurifolius	Ritha	89	Medicinal plant
19	Erythrina verigata	Pangara	61	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)	132 kw
	DG set as Power back-up during construction phase	2 Nos of DG set having capacity 75 kVA each
	During Operation phase (Connected load):	20,569 kW
	During Operation phase (Demand load):	3,348.98 kW
	Transformer:	7 nos having capacity 630 kVA
	DG set as Power back-up during operation phase:	3 Nos. X 75 kVA, 6 Nos. X 100 kVA & 2 Nos. X 300 kVA
	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 provided for common areas such as Open spaces, Pathways, RG etc.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED	>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.100 Lakh
	O & M cost:	Rs.10 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	Ph, colour, odour, turbidity, TDS, BOD, COD, O and G	15
2	Water utilization for tree planted along with the plot boundary	Soil and water	18
3	Site sanitation, toilets, safe drinking water, septic tank	Disinfection	32
4	Environmental monitoring	Ph, colour, odour, turbidity, TDS	15
5	Disinfection	Disinfection	10
6	Health check-up, First Aid	Annum	25
7	Safety personal protective equipment	Ear plugs, safety shoes, helmets	10
8	Traffic management	Regularly	15
9	Safety nets	Regularly	10
10	Storm water management	Monthly	28

11	Vehicle maintenance, washing area, tyre cleaning	Regularly	15
12	Site Fencing & Noise barriers	Monthly	18

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)	2 nos. having the capacity 700 KLD (360+340 KLD	115	15
2	Landscape Development	Manuring	30	3
3	Solid Waste Composting plant	OWC machine installation and maintainance	25	3
4	Rain water harvesting	construction and maintainance	28	2
5	Fire Fighting	Fire extinguishers	45	5
6	Solar street lighting & LED common area Light	Solar panels for street light and LED	100	10
7	Disaster Management Plan	Provided	80	8

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 Nos.
Parking details:	**Number and area of basement:**	1 no and basement area is 302.62 sq. mt.
	Number and area of podia:	1 nos. podium and area is 4971.17 sq. mt.
	Total Parking area:	10,980 sq.mt.
	Area per car:	30 sq.mt.
	Area per car:	30 sq.mt.
	Number of 2-Wheelers as approved by competent authority:	1,227 nos.
	Number of 4-Wheelers as approved by competent authority:	687 nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m & 12 m

	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	SGNP is 9.5 km and Tungareshwar Park is 8.5 km
	Category as per schedule of EIA Notification sheet	8 a (B2)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	1. We had Submitted Application at State Level by online on MoEF website vide generation of Proposal no. SIA/MH/NCP/58078/2016 on dated 03.08.20162. We had Submitted Application at Central Level online on MoEF Delhi website vide generation of Proposal no. IA/MH/NCP/61554/2017 on dated 05.01.2017 3. It was considered in 14th EAC (Infra-2) meeting held on dated 15.02.20174. Also we had submitted 14th EAC (Infra-2) meeting compliance reply on 08.03.2017 to the MoEF Delhi.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	03-08-2016

Brief information of the project by SEAC

PP, Mr. Ankush Kotmire & Architect Mr. Sanjay Narang were present during the meeting along with environmental consultant M/s Mahabal Enviro Engineers Pvt. Ltd**.**

PP informed that, the proposal was considered in 50th Part A meeting, but there is change in plan therefore committee decided to appraise the proposal as fresh proposal. PP also 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 36,408.75m^2 & after deduction Net plot area is 21,007.30 m^2 comprising total construction area (FSI- 52,691.55 m^2 + Non FSI-41,165.60m^2) 93,857.15m^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) PP to revise the Storm water run-off calculations considering maximum duration of rainfall event with 10 years return period & submit with conclusion. PP submitted calculations, as above and uploaded on website.
2) PP to provide cuts at three to four places in Building No 1 and Building No.4 at appropriate places to have adequate ventilation. Proposed plan blocks the air flow. PP to revise the building layout plan & submit again on the basis of shadow & wind analysis. PP submitted information as stated above and uploaded online.
3) Committee noted that there is no sewer line available, PP to ensure that discharge standards for STP should be BOD-5 mg/lit, COD-20 mg/lit & TSS- 20 mg/lit. PP to submit the detail STP design with mass flow discharge.
4) PP to submit & upload detail green cover/landscape plan.
5) PP to provide details of location of the DG set & height of Chimney as the mathematical model indicates that maximum incremental increase in SO2 concentration is 1.62µg/m3
6) PP to upload approved plans, fire tender movement plan on website.

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 5, 2017

Subject: Environment Clearance for Proposed Residential Cum Commercial project at Plot Bearing S. Nos. 25/9, 25/10, 25/1(pt), 11, 10/2, 3, 24/4 of village Barave, Tal – Kalyan, Dist – Thane by Sai Krupa Builders

General Information:

1.Name of Project	Sai Krupa Builders
2.Type of institution	Private
3.Name of Project Proponent	Mr. Ashok Gangwani
4.Name of Consultant	Dr. D. A. Patil, Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot Bearing S. Nos. 25/9, 25/10, 25/1(pt), 11, 10/2, 3, 24/4 at village Barave, Tal – Kalyan, Dist – Thane, Maharashtra.
9.Taluka	Kalyan
10.Village	Barave
11.Area of the project	Kalyan Dombivali Municipal Corporation (KDMC)
12.IOD/IOA/Concession/Plan Approval Number	CC obtained from KDMC: Outward no. KDMC/NRV/BP/KV/2013-14/61/349 dated: 31.03.2016
	IOD/IOA/Concession/Plan Approval Number: CC obtained from KDMC: Outward no. KDMC/NRV/BP/KV/2013-14/61/349 dated: 31.03.2016
	Approved Built-up Area: 12002.15
13.Note on the initiated work (If applicable)	Construction activity has been started on site as per Municipal approval. Total construction done as on today is 18535.5 m2.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	CC obtained from KDMC: Outward no. KDMC/NRV/BP/KV/2013-14/61/349 dated: 31.03.2016
15.Total Plot Area (sq. m.)	14,175.00
16.Deductions	3,025.00
17.Net Plot area	11,150.00
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 18,331.96
	b) Non FSI area (sq. m.): 16,277.93
	c) Total BUA area (sq. m.): 34,609.89
19.Total ground coverage (m2)	4280.64
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	38.39 %
21.Estimated cost of the project	720000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Unit-1. Bldg. 1	Gr. (p)+ St. (P) + 7 F	23.80
2	Unit-2. Bldg 2 (Wing A)	St.+15 F	45.75
3	Unit-3. Bldg 2: (Wing B)	St +15 F	45.75
4	Unit-6. Bldg 3	Gr.+2 F	11.95
5	Unit-9. Bldg 4	Gr. (p)+ St. (P) +15 F	45.75
6	Unit-7. Bldg. 5	St+ Podium Garden	4.05

23.Number of tenants and shops	252 tenements, 42 Shops and 1 club house.
24.Number of expected residents / users	1,422 Nos.
25.Tenant density per hectare	178.48 per 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)	15 m. and 12 m. wide 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**	KDMC
	Fresh water (CMD):	120
	Recycled water - Flushing (CMD):	62
	Recycled water - Gardening (CMD):	16
	Swimming pool make up (Cum):	4
	Total Water Requirement (CMD) :	181
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	90
Wet season:	**Source of water**	KDMC
	Fresh water (CMD):	75+ 45 (RWH)
	Recycled water - Flushing (CMD):	62
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	4
	Total Water Requirement (CMD) :	181
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	106
Details of Swimming pool (If any)	swimming pool of area about 50 m2	

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:	3 RWH tank with total capacity 150 m3
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 18 Lakh
	Budgetary allocation (O & M cost) :	Rs. 2 Lakh/year
	Details of UGT tanks if any :	Underground
35.Storm water drainage	**Natural water drainage pattern:**	Towards North
	Quantity of storm water:	1,600.50 m3/hr.
	Size of SWD:	450 x 600 mm wide channels
Sewage and Waste water	**Sewage generation in KLD:**	169 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of 180 KLD
	Location & area of the STP:	Ground (140 m2)
	Budgetary allocation (Capital cost):	Rs. 60 Lakh
	Budgetary allocation (O & M cost):	Rs. 11 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris: 1,005 m3
	Disposal of the construction waste debris:	Top soil will be used for landscaping purpose. The construction debris will be disposed as per the “Construction and Demolition and Desilting Waste (Management and Disposal) Rules 2016.
Waste generation in the operation Phase:	**Dry waste:**	265 kg/day
	Wet waste:	397 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	2 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 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
	Others if any:	The E-waste shall be handed over to E-waste management vendor authorized by MPCB.
Area requirement:	**Location(s):**	Location on Ground
	Area for the storage of waste & other material:	40 m2
	Area for machinery:	20 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 15 Lakh
	O & M cost:	Rs. 6 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 :**	RG area provided on ground: 1675 m2 & RG area on podium: 1585.84 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	100 Nos.
	List of proposed native trees :	As below
	Timeline for completion of plantation :	2 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadiracta indica	Neem	15	Large tree, good for roadside plant
2	Alstonia scholaris	Satvin	14	Shady Tree, white fragrant flowers
3	Saraca asoka	Sita Ashok	16	Shady tree with red-yellow flowers.
4	Mimusops elengi	Bakul	12	Shady tree, small white fragrant flowers
5	Butea monosperma	Palas	15	Medium sized deciduous tree. Beautiful orange
6	Pongamia pinnata	Karanj	13	Shady tree
7	Anthocephallus cadamba	Kadamb	15	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 :**	MSEDCL
	During Construction Phase: (Demand Load)	200 kVA
	DG set as Power back-up during construction phase	200 kVA
	During Operation phase (Connected load):	2.6 MW
	During Operation phase (Demand load):	1.3 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	500 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy efficient LED lighting
Use of high energy efficient pumps for fire fighting, UG tanks and STP
Solar Street lights are proposed for common areas such as open spaces, pathways, RG etc
Solar Hot Water

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving	22.57%
2	Energy saving from renewable source	15.58%

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. 36 Lakh
	O & M cost:	Rs. 2 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 and Potable Water Supply to Labour	-	3.5
3	Environmental Monitoring	(As per the CPCB guidelines through MoEF Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time)	2.5
4	Health check-up & first aid	-	3
5	Safety Personal Protective Equipment	-	4
6	Safety nets	-	5
7	Safety Training to Workers (Twice in Year), Safety Officer	-	4
8	Disinfection	-	2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	60	11
2	Solar Lighting and Solar Hot water	Weekly	36	2
3	Rainwater harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	18	2
4	Solid Waste Composting plant	Continuous O & M	15	6
5	Landscape	Daily	25	4
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved lab	-	4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	15 m. and 12 m. wide road.
Parking details:	**Number and area of basement:**	Na
	Number and area of podia:	1 Podium having area 1956.69 m2
	Total Parking area:	4819.54 m2
	Area per car:	25.23 m2
	Area per car:	25.23 m2
	Number of 2-Wheelers as approved by competent authority:	100
	Number of 4-Wheelers as approved by competent authority:	191
	Public Transport:	NA
	Width of all Internal roads (m):	min 6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	28-10-2016

Brief information of the project by SEAC

PP, Mr.Ashok Gangwani & Architect Mr. Anirudha were present during the meeting along with environmental consultant M/s D.A. Patil, Mahabal Enviro Engineers Pvt. Ltd.

PP informed that project is residential and commercial project on total plot area of 14,175.00 m^2. The project is located in the limits of Kalyan Dombivali Municipal Corporation (KDMC). PP stated that the Construction work is already started on site as per approval from KDMC vide no. KDMC/NRV/BP/KV/2013-14/61 dated 10.06.2013 as the total potential was less than 20,000 m^2. PP also informed that as per approvals they have completed construction of 18,535.50 m^2 till date comprising two buildings having BUA of 12,185.72 m^2. Further to this, PP informed that, at present there is no construction going on the site and as per the Government Resolution January, 2016 on additional FSI (Premium/TDR) plot potential is increasing having total construction area 34,609.89 m^2 hence applied for EC. 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 14,175 sq. mt and after deductions Net area of plot is 9,477.50 sq.mt. Further PP informed that, total construction area of the project (FSI-18,331.96 sq. mt + Non FSI- 16,277.93 sq. mt) is 34,609.89 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 following points.

Specific Conditions by SEAC:

1) PP to submit an undertaking that construction undertaken is 18,535.50 m2 only.
2) PP to connect existing two buildings to proposed STP.
3) PP to provide 3 Rainwater harvesting tanks of total capacity of 150 m3. Accordingly PP to revise Rainwater harvesting design & submit the same.
4) As stated, PP to provide dual plumbing system.
5) PP to submit Fire tender movement plan.

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 5, 2017

Subject: Environment Clearance for "RESIDENTIAL DEVELOPMENT" At Village Pahadi - Goregaon at Unnat Nagar No. 1, Goregaon (W) Mumbai, State: Maharashtra.

General Information:

1.Name of Project	"RESIDENTIAL DEVELOPMENT" At Village Pahadi - Goregaon at Unnat Nagar No. 1, Goregaon (W) Mumbai, State: Maharashtra.
2.Type of institution	Private
3.Name of Project Proponent	Shri. Abhijeet R. Patankar (General Manager)
4.Name of Consultant	Ultra-Tech
5.Type of project	MHADA (Redevelopment Scheme)
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Received Environmental Clearance dt. 11.06.2014
8.Location of the project	CTS Nos. 58 (pt) 1-76 of Village Pahadi - Goregaon at Unnat Nagar No. 1, Goregaon (W) Mumbai State: Maharashtra.
9.Taluka	Borivali
10.Village	Pahadi
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	Received IOD from M.C.G.M. dt. 18.02.2017
	IOD/IOA/Concession/Plan Approval Number: Received IOD from M.C.G.M. dt. 18.02.2017 no. CHE/8809/BP (WS)/AP
	Approved Built-up Area: 52068.08
13.Note on the initiated work (If applicable)	Received Environmental Clearance dt. 11.06.2014 . Total constructed work (FSI+ Non FSI): 59, 089.64 Sq.mt.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received MHADA NOC dt. 15.11.2003 & Revised MHADA NOC dt. 13.08.2014 & 11.05.2016
15.Total Plot Area (sq. m.)	9,605.64 Sq.mt.
16.Deductions	Nil
17.Net Plot area	9,605.64 Sq.mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 52, 040.76 Sq. mt.
	b) Non FSI area (sq. m.): 42, 590.77 Sq. mt.
	c) Total BUA area (sq. m.): 94, 631.53 Sq. mt.
19.Total ground coverage (m2)	6005.00 Sq. mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	62.52%
21.Estimated cost of the project	5534600000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing C	Stilt + 1st Podium + 2nd to 21st upper floors	63.65
2	Wing E	2 Basements + Stilt + 1st to 32nd floors + 33rd (pt) upper floors	108.00
3	Wing F	Lower Stilt + Stilt + 4 Podia + 1st to 31st floors + 32nd (pt) floor	120.75

23.Number of tenants and shops	Flats: 509 Nos.
24.Number of expected residents / users	2545 Nos.
25.Tenant density per hectare	530/hector
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12.20 mt. wide municipal road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12.00 mt.
29.Existing structure (s) if any	There were existing houses (ground floor structures) on the project site which have been demolished. It is a redevelopment scheme and permissible under existing rules.
30.Details of the demolition with disposal (If applicable)	Demolition debris has been partially reused on site for road works & waterproofing and remaining disposed at suitable location suggested by M.C.G.M.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	M.C.G.M.
	Fresh water (CMD):	229
	Recycled water - Flushing (CMD):	115
	Recycled water - Gardening (CMD):	23
	Swimming pool make up (Cum):	4
	Total Water Requirement (CMD) :	371
	Fire fighting - Underground water tank(CMD):	Wing E & F: 300 Cum, Wing C: 150 Cum
	Fire fighting - Overhead water tank(CMD):	30 Cum
	Excess treated water	130
Wet season:	**Source of water**	M.C.G.M. & RWH tanks
	Fresh water (CMD):	229 KLD (From M.C.G.M.: 209 KLD + From RWH tanks: 20 KLD)
	Recycled water - Flushing (CMD):	115
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	4
	Total Water Requirement (CMD) :	348
	Fire fighting - Underground water tank(CMD):	Wing E & F: 300 Cum, Wing C: 150 Cum
	Fire fighting - Overhead water tank(CMD):	30 Cum
	Excess treated water	153
Details of Swimming pool (If any)	Volume of swimming pool : 258 cum	

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:**	6.0 mt. below ground level
	Size and no of RWH tank(s) and Quantity:	Rain Water Harvesting tank of capacity 100 KL
	Location of the RWH tank(s):	Below Lower Stilt Floor
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	Rs. 10.00 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.50 Lacs/annum
	Details of UGT tanks if any :	Location(s) of the UGT tank(s): Below Lower Stilt Floor
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged into the external SWD.
	Quantity of storm water:	0.22 m3/sec
	Size of SWD:	600 mm X 600 mm with slope 1:250
Sewage and Waste water	**Sewage generation in KLD:**	298
	STP technology:	MBBR (Moving Bed Bio Reactor)
	Capacity of STP (CMD):	1 STP of 330 KL
	Location & area of the STP:	Below Lower Stilt Floor
	Budgetary allocation (Capital cost):	Rs. 74.30 Lacs
	Budgetary allocation (O & M cost):	Rs. 16.95 Lacs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Demolition debris has been partially reused on site for road works & waterproofing and remaining disposed at suitable location suggested by M.C.G.M.
	Disposal of the construction waste debris:	Construction waste which shall be generated during construction activity shall be partly reused and remaining shall be disposed to authorized landfill site with permission of M.C.G.M.
Waste generation in the operation Phase:	**Dry waste:**	344 Kg/day
	Wet waste:	802 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	45 Kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Non-recyclable: To M.C.G.M. & Recyclable: To recyclers
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	NA
Area requirement:	**Location(s):**	1st podium (Wing C & F) and Lower Basement (Wing E)
	Area for the storage of waste & other material:	52 Sq.mt.
	Area for machinery:	12 Sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 9.00 Lacs
	O & M cost:	Rs. 3.35 Lacs /annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	RG area : 770 Sq.mt. Additional green cover area on podium : 2500 Sq.mt.
	No of trees to be cut :	Already cut trees: 78 nos.
	Number of trees to be planted :	Already planted: 119 nos.
	List of proposed native trees :	Tree plantation is completed on site.
	Timeline for completion of plantation :	Already planted.

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	Nil	Nil	Nil	Nil
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	Nil	Nil	Nil

47.Energy

Power requirement:	**Source of power supply :**	Reliance Infrastructure Limited
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	11190 KW
	During Operation phase (Demand load):	4964 KW
	Transformer:	5 nos. of 1000 kVA each
	DG set as Power back-up during operation phase:	2 DG sets of capacity 625 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Provision of solar panels
2. Provision of solar water heater
3. Use of T-5 fitting (28W) and electronic ballasts of fluorescent light fitting (40W) and copper ballasts
4. Use of BEE certified motors
5. Use of group controls and variable speed drives
6. Use of LED fitting instead of fluorescent light

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	1. Provision of solar panels. 2. Provision of solar water heater. 3. Use of T-5 fitting (28W) and electronic ballasts of fluorescent light fitting (40W) and copper ballasts. 4. Use of BEE certified motors. 5. Use of group controls and variable speed drives. 6. Use of LED fitting instead of fluorescent light. Total energy saving : 21 %. Energy saving due to solar system: 9 %	Total energy saving : 21 %. Energy saving due to solar system: 9 %

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. 184.00 Lacs (Solar lights & solar panels)
	O & M cost:	Rs. 4.20 Lacs/annum (Solar lights & solar panels)

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust Suppression	1.44
2	Air Environment	Air & Noise Quality Monitoring - On site sensors	10.00
3	Air Environment	Air & Noise Quality Monitoring - By outside MOEF Approved Laboratory	0.44
4	Water Environment	Drinking water analysis	0.36
5	Land Environment	Site Sanitation	5.00
6	Health & Hygiene	Disinfection- Pest Control	2.40
7	Health & Hygiene	Health Check Up of workers	9.00
8	Disaster Management	--	3.82

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, Noise Environment & Biological Environment	Cost for Gardening , Cost for Ambient air & Noise Monitoring , Cost for DG Stack Exhaust Monitoring	17.99	1.52
2	Water Environment	Waste water treatment- Cost for sewage Treatment Plant	56.30	15.92
3	Water Environment	Waste water treatment- Cost for Waste water Monitoring (On site sensors & By outside MOEF Approved Laboratory)	18.00	1.03
4	Water Environment	Water Conservation - Cost of Rain Water Harvesting System	10.00	0.50
5	Water Environment	Water Conservation (RWH System) - Cost for treatment unit for rain water tanks , Cost for Rainwater Monitoring	3.00	0.06
6	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage in OWC and Cost for monitoring of organic manure	9.00	3.43
7	Energy Conservation	Solar system	184.00	4.20
8	Cost towards Disaster management	--	885.46	3.46

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:	Five entry and exits
Parking details:	**Number and area of basement:**	2 Basements
	Number and area of podia:	4 Podia
	Total Parking area:	16312.94 Sq. mt.
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	Required: Nil and Proposed: 140 nos.
	Number of 4-Wheelers as approved by competent authority:	Required: 531 nos. and Proposed: 618 nos.
	Public Transport:	Nil
	Width of all Internal roads (m):	Minimum 6.00 mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park: Approx.4.00 Km
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	03-11-2016

Brief information of the project by SEAC

PP, Mr.Wadhwa was present during the meeting along with environmental consultant M/s ULTRA-TECH. Committee noted that applicant name is changed from "M/s. Polycon Realtors Pvt. Ltd." to Wadhwa Realty Pvt. Ltd.

PP informed that, the project is MHADA redevelopment project and the earlier EC was received on 11/06/2014 for total Construction built up area of 75,020.88 Sq. m. and now the proposal is for Amendment in EC which comprises change in Built-up Area. Total built up area from 75,020.88 Sq. m. to 94, 631.33 Sq. m. The proposed expansion is increase in upper residential floors & increase in building height of Wing F (earlier A) & E (earlier B). 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 further stated that, Total plot area is 9605.64 Sq. m. comprising total built up area (FSI- 52,040.76 Sq. m. +Non FSI-42,590.77 Sq. m) is 94, 631.53 Sq. m. PP also informed that as per approvals they have total constructed work (FSI+ Non FSI): 59,089.64 Sq.mt till date. 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) PP to ensure that slope of ramp is 1:12
2) PP to ensure that BOD of the treated waste water should be 10 mg/lit, COD- 30 mg/lit and suspended solids is 20 mg/lit
3) Committee noted that, STP is located at below lower stilt. PP to ensure that STP ventilation shaft should be wider & open to ground. PP to submit the revised Plan for the same.

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 5, 2017

Subject: Environment Clearance for Residential Cum Commercial Project

General Information:

1.Name of Project	Proposed Residential Building Project
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rohitashwa Poddar & Mr. Dipak Kumar Poddar
4.Name of Consultant	M/S Aqura Enviro Projects Pvt. Ltd.
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. 142 Hissa No.1,2(pt),4 , S.No 143, Hissa No10,11B,12, S.No. 144, Hissa No3 & 4 , S. No. 166 Hissa No.0, S. No. 167 Hissa No.1(pt),2, S. No. 168 Hissa No.0, S. No. 172 Hissa No.7, S. No. 174 Hissa No.15, Village Atgaon, Taluka Shahapur, District Thane.
9.Taluka	Shahapur
10.Village	Atgaon
11.Area of the project	Collector of Thane
12.IOD/IOA/Concession/Plan Approval Number	Submitted to Collector of Thane on dated 25th MAY 2016.
	IOD/IOA/Concession/Plan Approval Number: Submitted to Collector of Thane on dated 25th MAY 2016.
	Approved Built-up Area: 70628.40
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Submitted to Collector of Thane on dated 25th MAY 2016.
15.Total Plot Area (sq. m.)	69240.00 Sq.m.
16.Deductions	10383.00
17.Net Plot area	58857.00
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 70628.40
	b) Non FSI area (sq. m.): 25588.35
	c) Total BUA area (sq. m.): 96216.75
19.Total ground coverage (m2)	17218.97
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25%
21.Estimated cost of the project	192433500

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No 1:- Type A -25 Nos & Type B :- 10 Nos	Type A:- Ground Floor + 7th Upper Floor, Type B :- Ground Floor (pt) + Commercial Floor (pt) + 7th Upper Residential Floor	23.35m & 23.95m
2	Building No 2:- Type A -3 Nos & Type B :- 1 Nos	Type A:- Ground Floor + 7th Upper Floor, Type B :- Ground Floor (pt) + Commercial Floor (pt) + 7th Upper Residential Floor	23.35m & 23.95m

23.Number of tenants and shops	Total 2128 nos of Flats & 110 nos Shops
24.Number of expected residents / users	Total Population 12034 (Residential – 10640 Nos. , Floating/Visitors etc. – 1064 Nos. & Shops:-330 Nos)
25.Tenant density per hectare	1719
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	6m, 12m & 15m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	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**	Government of Maharashtra (From Bhatsa Dam)
	Fresh water (CMD):	986
	Recycled water - Flushing (CMD):	514
	Recycled water - Gardening (CMD):	40
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1539
	Fire fighting - Underground water tank(CMD):	750
	Fire fighting - Overhead water tank(CMD):	375
	Excess treated water	663
Wet season:	**Source of water**	Government of Maharashtra (From Bhatsa Dam)
	Fresh water (CMD):	986
	Recycled water - Flushing (CMD):	514
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	1499
	Fire fighting - Underground water tank(CMD):	750
	Fire fighting - Overhead water tank(CMD):	375
	Excess treated water	702
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:**	2.5m to 4.5m
	Size and no of RWH tank(s) and Quantity:	Total 7nos of Tanks having Total Capacity 238.50 CMD
	Location of the RWH tank(s):	Below Ground
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	5 lakh
	Budgetary allocation (O & M cost) :	0.5 Lakh
	Details of UGT tanks if any :	Total 7 Nos of Tanks :- 1) Domestic Water Tank :- 7 Nos having total capacity is 1053 CMD (55, 332, 131, 55.4, 124.74, 27.72, 325.71 CMD) 2) Flushing Water Tank:- 7 Nos having total capacity is 530 CMD (27.9, 167.36, 66.25, 27.90, 62.8, 13.99, 163.87 CMD) 3) Rain Water Tank:- 7 Nos having total capacity is 238.50 CMD(12.5, 73, 30.5, 12.50, 30.50, 6.50, 73 CMD) 4) Fire Fighting Tank:- 7 Nos having total capacity is 750.00 CMD(50,200,100, 50, 100 ,50, 200CMD)
35.Storm water drainage	**Natural water drainage pattern:**	Rainwater from site shall be collected by network of storm water piping system through catch basins and storm channel & then allowed to connect to the public storm water line outside the plot boundary.
	Quantity of storm water:	0.49 cum/sec
	Size of SWD:	Width – 0.9 m, Hydraulic depth – 1 m
Sewage and Waste water	**Sewage generation in KLD:**	1351
	STP technology:	MBBR
	Capacity of STP (CMD):	2 Nos having capacity 680 KLD
	Location & area of the STP:	Below Ground. Area:- 220 Sq.m for Each
	Budgetary allocation (Capital cost):	225 Lakh
	Budgetary allocation (O & M cost):	6 Lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris
	Disposal of the construction waste debris:	Disposal of construction waste will be as per “Construction and Demolition and De-silting Waste” (Management and Disposal) Rules 2006 at the designated site as directed by the Local Body.
Waste generation in the operation Phase:	**Dry waste:**	1972 Kg/Day
	Wet waste:	2958 Kg/Day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	40 Kg/Day
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Dry waste would be further segregated into recyclable and non-recyclable. Recyclable will be handed over to vendors and non recyclable will be disposed off at Local Body landfill sites.
	Wet waste:	Wet Garbage will be treated in Mechanical Composting Unit 'Organic Waste Convertor' (OWC) and the compost generated would be used as manure for gardening purpose and excess would be disposed off to landfill site of Local Body.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	will be treated in Mechanical Composting Unit 'Organic Waste Convertor' (OWC)
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Ground Floor
	Area for the storage of waste & other material:	Total 2 nos of OWC plan provided , Area 1) OWC 1:- 100 Sq.m. & 2) OWC 2:- 120 Sq.m.
	Area for machinery:	For 1) OWC 1:- 20 Sq.m. & 2) OWC 2:- 20 Sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20 Lakh
	O & M cost:	0.5 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 :**	7934.00 Sq.M.
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	397 nos
	List of proposed native trees :	Kunti (Murraya paniculata) , Shivan (Gmelina arborea), Fish tail Palm (Caryota urens), Kate sawar (Bombax ceiba), Palash / Flame of the forest (Butea monosperma), Pangara (Erythrina indica), Ashoka (Saraca indica), Palm (Borassus flabellifer), Bakul (Mimusops elengi)
	Timeline for completion of plantation :	will be complete in phasewise. in 6 months after the completion of RCC work.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Kunti	Murraya paniculata	50	Small tree, Fragrant white flowers, Butterfly host plant
2	Shivan	Gmelina arborea	50	Fast growing tree with beautiful yellow flowers
3	Fish tail palm	Caryota urens	45	Tall evergreen tree
4	Katesavar	Bombax ceiba	50	Large tree, red flowers.
5	Palas / Flame of the forest	Butea monosperma	50	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
6	Pangara	Erythrina indica	40	Medium sized deciduous tree. Bright scarlet flowers.
45.Total quantity of plants on ground				

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

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

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	Not Applicable
	During Operation phase (Connected load):	8479.63 KW
	During Operation phase (Demand load):	5087.78 KW
	Transformer:	Not Applicable
	DG set as Power back-up during operation phase:	Total 7 nos of DG Sets are provided:- 1 Nos - 125 KVA, 2 Nos 200 KVA, 2 nos - 320 KVA & 2 Nos 625 KVA.
	Fuel used:	LSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

1) By Using CFL / T5 Lamps
2) By Using LED Light in Lift lobby
3) By Using electonic ballast
4) By Using VFD and high effiecient pump
5) By Using Solar lighting for External Light

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	By Using CFL / T5 Lamps & Electronic Ballast	58KWH/Day saving, Overall Saving can be considered as 37%
2	By Using LED Light in Lift lobby	49KWH/Day saving, Overall Saving can be considered as 50%
3	By Using electonic ballast	64KWH/Day saving, Overall Saving can be considered as 25%
4	By Using VFD and high effiecient pump	147KWH/Day saving, Overall Saving can be considered as 25%
5	By Using Solar lighting for External Light	288KWH/Day saving, Overall Saving can be considered as 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:**	35Lakh
	O & M cost:	2 Lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water	Drinking Water	0.1
2	Water	Dust Separation	0.2
3	Sanitation	-	0.5
4	Health Checkup	-	0.5

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 & Sewarage Network	2 Nos of STP provided having each capacity 680CMD	225	6
2	OWC	Total Wet waste = 2958 kg / day.	20	1.5
3	RWH	238 CUM Capacity tank provided	5	0.5
4	Solar Water Heater	50% flats hot Water on Solar	350	17.5
5	Storm Water Drain	900mm Width & 1000mm Height	50	2.5

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 Nos
Parking details:	**Number and area of basement:**	Not Applicable
	Number and area of podia:	Not Applicable
	Total Parking area:	21858.00 Sq.m.
	Area per car:	24 Sq.m
	Area per car:	24 Sq.m
	Number of 2-Wheelers as approved by competent authority:	2708 nos
	Number of 4-Wheelers as approved by competent authority:	302 Nos
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6m & 12m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Tansa Dam:- 6Km, Bhatsa Reservoir :- 11.50 Km & Mahuli Mountain:- 0.10 Km
	Category as per schedule of EIA Notification sheet	8 B
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	17-01-2017

Brief information of the project by SEAC

PP, Mr.Amala Singh & Architect Mr. Mahajan were present during the meeting along with environmental consultant M/s Aqura Enviro Projects Pvt. Ltd. (AEPPL)

PP informed that, total plot area is 69,240.00 Sq. m. & after deduction net plot area is of 58,837.00 Sq. m comprising total built up area (FSI +Non FSI) is 70,497.52 Sq. m. 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, Plans submitted to local body (i.e Collector, Thane) on 2nd May, 2016. PP also stated that no forest or tribal land involved in the project. NA for plot is pending. 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) PP to upload the plans on website.
2) PP to study the hydraulic profile (min 3 Km radius) with contour and evaluate impact of project on surrounding area during rainy season.
3) PP to undertake construction conveyance system to carry treated waste water to sewer line of gram panchayat.
4) No slab to be constructed on STP for parking. PP to ensure STP will be open to ground/sky
5) PP to explore decentralized waste conversion/scientific disposal methods over and above the proposed OWC.
6) PP to install solar PV panel & solar water heater to increase renewable energy component share up to 12%.
7) PP to submit agreement for use of treated water.

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 5, 2017

Subject: Environment Clearance for "MMRDA Rental Housing Scheme with Sale component" at Village Shillotar Raichur and village Aakurli, Taluka – Panvel

General Information:

1.Name of Project	"MMRDA Rental Housing Scheme with Sale component" at Village Shillotar Raichur and village Aakurli, Taluka – Panvel
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vinay S Agrawal
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	MMRDA Rental Housing Scheme with Sale component
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Received Environmental Clearance dt. 29th June, 2011
8.Location of the project	Survey no. 45/2 [old nos. 45/4, 45/8B, 45/9, 45/18(PT), 45/11(PT)] at Village Shillotar Raichur, Survey No. 173/0 at village Aakurli, Taluka – Panvel
9.Taluka	Panvel
10.Village	Shiloter Raichur and Aakurli
11.Area of the project	Local Planning Authority: Mumbai Metropolitan Region Development Authority (MMRDA)
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: CIDCO / NAINA / PANVEL / Shillotar Raichur+ Aakurli/ BP-92/CC/2016/2541
	Approved Built-up Area: 138560.74
13.Note on the initiated work (If applicable)	Total constructed work (FSI+ Non FSI): 2,55,777.00 Sq. mt.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received Location Clearance No. MMRDA/RHS-57/09/72 dated 02/09/2009
15.Total Plot Area (sq. m.)	36,910.00 sq. mt.
16.Deductions	1, 845.50 sq. mt.
17.Net Plot area	35,064.50 sq. mt.
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1, 38,560.74 sq. mt.
	b) Non FSI area (sq. m.): 1,59, 659.12 sq. mt.
	c) Total BUA area (sq. m.): 2, 98, 219.86 sq. mt.
19.Total ground coverage (m2)	16,833.64 sq. mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	48 %
21.Estimated cost of the project	3948900000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rental Building No. 1	Ground + 14 Floors	42.09 mt. up to terrace level
2	Rental Building No. 2	Ground + 14 Floors	42.09 mt. up to terrace level
3	Rental Building No. 3	Ground + 14 Floors	42.09 mt. up to terrace level
4	Rental Building No. 4	Ground + 14 Floors	42.09 mt. up to terrace level
5	Sale Building Wing A	2 Basements + Stilt + 4 Podia + 1st to 29th floors	100 mt. up to terrace level
6	Sale Building Wing B	2 Basements + Stilt + 4 Podia + 1st to 29th floors	100 mt. up to terrace level
7	Sale Building Wing C	2 Basements + Stilt + 4 Podia + 1st to 29th floors	100 mt. up to terrace level
8	Sale Building Wing D	2 Basements + Stilt + 4 Podia + 1st to 29th floors	100 mt. up to terrace level
9	Sale Building Wing E	2 Basements + Stilt + 4 Podia + 1st to 29th floors	100 mt. up to terrace level
10	Sale Building Wing F	2 Basements + Stilt + 4 Podia + 1st to 29th floors	100 mt. up to terrace level

11	Sale Building Wing G	2 Basements + Stilt + 3 Podia + 1st to 29th floors	100 mt. up to terrace level
12	Sale Building Wing H	2 Basements + Stilt + 4 Podia + 1st to 29th floors	100 mt. up to terrace level
13	Sale Building Wing I	Stilt + 2 Podia + 1st to 30th floors	100 mt. up to terrace level
14	Sale Building Wing J	Stilt + 2 Podia + 1st to 30th floors	100 mt. up to terrace level
15	Sale Building Wing K	Stilt + 2 Podia + 1st to 30th floors	100 mt. up to terrace level

23.Number of tenants and shops	Rental Buildings : Flats: 2039 Nos. Shops: 12 Nos. Balwadi: 11 Nos. Welfare Centre: 11 Nos. Manager Cabin: 5 Nos. Any other: 4 Nos. Sale Buildings : Total Flats: 1982 Nos.
24.Number of expected residents / users	Rental - 10441 Nos. and Sale - 9910 Nos.
25.Tenant density per hectare	1093/hectors
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	27 mt. wide Panvel - Matheran road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6.0 mt. to 9.0 mt.
29.Existing structure (s) if any	Part construction completed as per previous EC
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**	Sukhapur Gram Panchayat Water Works Dept.
	Fresh water (CMD):	1815
	Recycled water - Flushing (CMD):	912
	Recycled water - Gardening (CMD):	29
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	2759
	Fire fighting - Underground water tank(CMD):	700
	Fire fighting - Overhead water tank(CMD):	450
	Excess treated water	1187
Wet season:	**Source of water**	Sukhapur Gram Panchayat Water Works Dept./RWH
	Fresh water (CMD):	1815
	Recycled water - Flushing (CMD):	912
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	2730
	Fire fighting - Underground water tank(CMD):	700
	Fire fighting - Overhead water tank(CMD):	450
	Excess treated water	1216
Details of Swimming pool (If any)	Swimming pool Volume - 221 m3	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3.0 m and 6.3 m below ground level.
	Size and no of RWH tank(s) and Quantity:	Rental Buildings - 4 tanks of total capacity 106 KL and Sale Buildings - 2 tanks of total capacity 71 KL
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 35.90 Lacs
	Budgetary allocation (O & M cost) :	Rs. 1.38 Lacs/annum
	Details of UGT tanks if any :	Location(s) of the UGT tank(s): Underground
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged into the external drain.
	Quantity of storm water:	0.991 m3/sec
	Size of SWD:	2.490 m3/sec
Sewage and Waste water	**Sewage generation in KLD:**	Rental Buildings: 1204 KLD, Sale Buildings: 1160 KLD
	STP technology:	Moving Bed Bio Reactor (MBBR)
	Capacity of STP (CMD):	Rental Building: 1 STP of capacity 1250 KL , Sale Building: 1 STP of capacity 1280 KL
	Location & area of the STP:	Underground
	Budgetary allocation (Capital cost):	Rs. 475.00 Lakhs
	Budgetary allocation (O & M cost):	Rs. 29.11 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation material has been reused on site and remaining disposed for filling and leveling of another plot.
	Disposal of the construction waste debris:	Construction waste partly reused on site and partly disposed to the authorized landfill site
Waste generation in the operation Phase:	**Dry waste:**	2734 Kg/day
	Wet waste:	6339 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	356 Kg/day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Recyclable waste : To recyclers , Non-recyclable waste : To Sukhapur Grampanchayat
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	As manure
	Others if any:	NA

Area requirement:	**Location(s):**	Ground level
	Area for the storage of waste & other material:	540
	Area for machinery:	60
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 45.00 Lacs
	O & M cost:	Rs. 17.51 Lacs/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development

Total RG area :	RG area on Ground - 3539.31 Sq.mt.
No of trees to be cut :	Cut trees: 29 Nos.
Number of trees to be planted :	470 Nos.
List of proposed native trees :	Given in list of proposed plantation on ground
Timeline for completion of plantation :	Before Occupation

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

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

1	Cassia fistula	Bahava	48	Medium sized deciduous tree. Beautiful yellow flowers, it is relatively drought tolerant and slightly salt tolerant. It has medicinal properties, Butterfly host plant.
2	Erythrina indica	Pangara	27	It is a drought resistant tree. Flowers are pollinated by birds.
3	Putranjiva roxburghii	Putranjiva	30	Medium sized evergreen tree, Its bark, leaves and fruit has medicinal properties.
4	Lagestromia speciosa	Tamhan	37	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers, it has medicinal properties, wood is commercially used. Helps to control soil erosion
5	Michelia champaca	Sonchafa	22	Medium sized evergreen tree, strongly fragrant yellow flowers used in perfume industry, Butterfly host plant
6	Azadirachta indica	Neem	27	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation
7	Neolamarckia cadamba	Kadamb	15	It is a quick growing , large traffic like spreading branches, its fragment orange flowers attracts pollinators, it helps in improving physical and chemical properties of soil, Shady, large tree, ball shaped flowers. It acquires profitable medicinal and commercial properties.
8	Terminalia arjuna	Arjun	16	Leaves are fed on by the Antheraea paphia moth which produces the tassar silk (tussah), a wild silk of commercial importance. Its bark is used in pharmaciticals for preparing medicines of heart liver & sexually transmitted diseases.
9	Mimusops elengi	Bakul	30	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.
10	Ailanthus excelsa	Maharukh	30	Large tree, aromatic good for roadside plantation
11	Murraya paniculata	Kunti	36	Small tropical, evergreen tree, Fragrant white flowers, planted as ornamental tree, it has potential of medicinal properties, family tree for bees,Butterfly host plant
12	Mangifera indica	Mango	44	It is large evergreen and shady tree. Its uses are clearing digestion and acidity due to pitta (heat). Medicinal properties are attributed to different parts of mango tree.
13	Pongamia pinnata	Karanj	40	It has large canopy which spreads equally wide, It has potential to grow in salt water soil, drought-tolerant.
14	Bauhinia variegata	Kanchan	42	Plant is attractive to bees, butterflies and/or birds. Inflorescence is white in color.Plant is attractive to bees, butterflies and/or birds. Inflorescence is white in color.
15	Saraca asoka	Sita ashok	26	Shady evergreen tree with red-yellow flowers.

45.Total quantity of plants on ground	

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	150 KW
	DG set as Power back-up during construction phase	3 Nos. of DG sets of capacity 125 kVA each and 2 Nos. of DG sets of capacity 62.5 kVA each
	During Operation phase (Connected load):	Rental - 1595 KW, Sale - 5719 KW
	During Operation phase (Demand load):	Rental - 1355 KW, Sale - 4862 KW
	Transformer:	----
	DG set as Power back-up during operation phase:	Rental - 1 no of DG Set of capacity 250 kVA, Sale - 2 nos. of DG Sets of capacity 250 kVA each, 1 no of DG Set of capacity 140 kVA and 3 nos. of DG Sets of capacity 320 kVA each
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- Use of T-5 Fittings (28 w) and Electronic ballasts
- Use of BEE certified motors
- Use of Group controls and variable speed drives
- Use of LED Fittings (18 w)
- Daylight based controls
- Provision of solar water heating system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• Use of T-5 Fittings (28 w) and Electronic ballasts • Use of BEE certified motors • Use of Group controls and variable speed drives • Use of LED Fittings (18 w) • Daylight based controls • Provision of solar water heating system Energy Saving - 21%	21%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.95.00 Lacs
	O & M cost:	Rs.5.00 Lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust suppression	4.32
2	Air Environment	Air and Noise quality monitoring - On site sensors	10.00

3	Air Environment	Air and Noise quality monitoring - By outside MOEF Approved Laboratory	3.30
4	Air Environment	Batching plant monitoring	0.54
5	Water Environment	Drinking water analysis	0.54
6	Land Environment	Site Sanitation	10.00
7	Health & Hygiene	Disinfection- Pest Control	3.60
8	Health & Hygiene	Health Check up of workers	45.00
9	Cost towards Disaster management	----	172.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Environment	Cost for Gardening	28.06	1.20
2	Air Environment	Cost for Ambient air & Noise Monitoring	No set up cost is involved	0.22
3	Air Environment	Cost for DG Stack Exhaust Monitoring	No set up cost is involved	0.25
4	Air Environment	Air cleaning system	40.00	3.00
5	Water Environment - Waste water treatment	Cost for sewage Treatment Plants	439.00	27.00
6	Water Environment - Waste water treatment	Cost for Waste water Monitoring - On site sensors	36.00	2.00
7	Water Environment - Waste water treatment	Cost for Waste water Monitoring - By outside MOEF Approved Laboratory	No set up cost is involved	0.11
8	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for RWH tank	17.90	0.90
9	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for rain water tanks	18.00	0.21
10	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.27
11	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage	45.00	17.11
12	Land Environment (Solid Waste Management)	Cost for monitoring of organic manure	No set up cost is involved	0.40
13	Energy Conservation	Solar system	95.00	5.00
14	Cost towards Disaster management	----	363.32	32.58

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	One Entry and Exit
Parking details:	**Number and area of basement:**	2 Basements
	Number and area of podia:	4 Podia
	Total Parking area:	As per NBC
	Area per car:	As per NBC
	Area per car:	As per NBC
	Number of 2-Wheelers as approved by competent authority:	Required - 161 nos. , Provided - 816 Nos.
	Number of 4-Wheelers as approved by competent authority:	Required - 1769 Nos. , Provided - 1773 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 mt. to 9.0 mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category 8(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. Vinay Agrawal & Architect Mr. P.K .Madhav were present during the meeting along with environmental consultant M/s. Ultra-Tech. PP informed that EC was received on 29/6/2011 and now the proposal is for Amendment in EC which comprises change in Built-up Area as per FSI from 1,47,640 sq. m to 1,38,560.74 Sq. mt. and Total built up area from 3,08,392.42 Sq. mt to 2,98,219.86 Sq. mt. Total plot area remain same as 36,910.00 Sq.mt. Building configuration changes as Sale Building- 12 residential + 1 commercial: G+30 floors (No of tenements 1955) to 1 building with 11 wings (Wing A to F & H: 2B+S+4P+ 29 floors, wing G: 2B+S+3P+ 29 floors and wing I,J,K: S+2P+ 30 floors) Rental Building- 1 building (9 wings): G+23 floors (No of rental units- 2136) to 4 buildings (G+14 floors). PP informed that, they have total constructed work (FSI+ Non FSI): 2,55,777.00 Sq. mt.

The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. It is noted that the project was earlier considered in 34th meeting of SEAC II in which TOR was approved. PP submitted EIA report in the meeting. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B1) category of EIA Notification, 2006. Consolidated statements, synopsis of compliances, form 1, 1A, presentation & plans submitted are taken on the record.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Committee noted that, project construction started but it appears that it is not as per the issued EC, therefore PP to submit details of works and layout approved earlier superimposed with present layout indicating construction status, to ascertain the deviation, if any.
2) PP to also ensure that OM issued by MoEF vide letter dated 19 June, 2013 was followed and submit details of the compliance thereon. PP to submit the status as per the parameters stipulated in above said OM date June 2013.
3) PP to upload approved plans.

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

SEAC Meeting number: 54 **Meeting Date** July 5, 2017

Subject: Environment Clearance for Proposed S.R. Scheme by M/s. FATCAT Infrastructure Pvt Ltd

General Information:

1.Name of Project	Proposed S.R. Scheme by M/s. FATCAT Infrastructure Pvt Ltd
2.Type of institution	Private
3.Name of Project Proponent	Mr. Swanand Dadhe
4.Name of Consultant	Aditya Environmental Services Pvt Ltd AND Green Step Enviro Solution
5.Type of project	SRA Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	CTS No. 1(part), Ghatkopar-Mankhurd Link road
9.Taluka	Ghatkopar
10.Village	Deonar
11.Area of the project	Slum Rehabilitation Authority Mumbai
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: Applied
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	18084.36 Sq.m
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI no. SRA/ENG/1998/ME/ML/LOI ; SRA/ENG/2248/ME/ML/LOI (16/01/2017)
15.Total Plot Area (sq. m.)	7000.12 Sq.m
16.Deductions	633.40 Sq.m
17.Net Plot area	6366.72 Sq.m
18.Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 25152.11
	b) Non FSI area (sq. m.): 17571.45
	c) Total BUA area (sq. m.): 42723.56
19.Total ground coverage (m2)	2613.54
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	41 % of net plot area
21.Estimated cost of the project	900000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sale Building No. 1	G + 1st +2nd(a to c) podium + 3rd to 18th upp floor	66.04 m
2	Sale Building No. 2	G + 1st +2nd +3rd Podium + 4th to 22nd upp floor	69.80 m
3	Rehab Building No. 1	G + 14th Upp floor	45.40 m
4	Rehab Building No. 2	G + 1st to 23rd upp floor	69.77 m

23.Number of tenants and shops	Sale Buildings : Residential - 325 ; Commercial - 15 Rehab Building : Residential - 300 ; Commercial - 51
24.Number of expected residents / users	Sale Buildings : 1655 (Residential + Commercial) ; Rehab Buildings : 1587 (Residential + Commercial)
25.Tenant density per hectare	4631 per Ha ; 987 tenement density per Ha
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The project has access from 61 m wide Ghatkopar-Mankhurd link road from nearest Deonar Fire Brigade which is 1.5 km from project site.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	Slum houses
30.Details of the demolition with disposal (If applicable)	Reused for site.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Municipal corporation of Greater Mumbai
	Fresh water (CMD):	283
	Recycled water - Flushing (CMD):	143.25
	Recycled water - Gardening (CMD):	6
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	432.25
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	30
	Excess treated water	174.81
Wet season:	**Source of water**	Municipal corporation of Greater Mumbai
	Fresh water (CMD):	283
	Recycled water - Flushing (CMD):	143.25
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	426.25
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	30
	Excess treated water	180.81
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:**	4 - 10 m BGL
	Size and no of RWH tank(s) and Quantity:	3 nos. of RWH tanks with sizes 31.5 cum & 2 x 12.5 cum respectively.
	Location of the RWH tank(s):	Shown on layout
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	Rs. 8,50,000 /- (Sale + Rehab)
	Budgetary allocation (O & M cost) :	Rs. 45,000 /- (Sale + Rehab)
	Details of UGT tanks if any :	1. Domestic UG tank : Sale building-146.50 cum ; Rehab building - 133.70 cum 2. Flushing UG tank : Sale building-73.20 cum ; Rehab building - 66.90 cum 3. Fire UG tank : Sale building-150 cum ; Rehab building - 100 cum
35.Storm water drainage	**Natural water drainage pattern:**	As per contour plan
	Quantity of storm water:	0.122 m3 / sec
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	340.63
	STP technology:	FMBR technology
	Capacity of STP (CMD):	2 nos. of STP's are provided. STP 1 : 175 KLD ; STP 2 : 190 KLD
	Location & area of the STP:	STP 1 : 115 Sq.m ; STP 2 : 130 Sq.m
	Budgetary allocation (Capital cost):	Rs. 80,00,000 /-
	Budgetary allocation (O & M cost):	Rs. 5,00,000 /-

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Used for site filling
Waste generation in the operation Phase:	**Dry waste:**	Sale Buildings : 325 ; Rehab Buildings : 297
	Wet waste:	Sale Buildings : 491.1 ; Rehab Buildings : 457.7
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	20 kg/day
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	To authorized agency
	Wet waste:	Treat through OWC
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Shown on layout
	Area for the storage of waste & other material:	52 sq.m (each)
	Area for machinery:	28 sq.m (each)
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 20,00,000 /- (Sale + Rehab)
	O & M cost:	Rs. 2,00,000 /- (Sale + Rehab)

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 :**	923.21 Sq.m
	No of trees to be cut :	0
	Number of trees to be planted :	0
	List of proposed native trees :	90
	Timeline for completion of plantation :	5 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	20	Shady tree
2	Bauhinia racemosa	Apta	15	Small tree with small white flowers, butterfly host plant
3	Azadiracta indica	Neem	5	Large tree, good for roadside plantation
4	Anthocephallus cadamba	kadamb	15	Shady, large deciduous tree, fast growing graceful tree, ball shaped flowers
5	Cassia fistula	Bhawa	15	Medium sized deciduous tree, beautiful yellow flowers, Butterfly host plant
6	Saraca asoka	Sita Ashoka	15	Shady tree with red yellow flowers
7	Mimusops elengi	Bakul	10	Shady tree, small white fragrant flowers
8	magnifera Indica	Mango	5	Fruit Bearing Tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	M/s. Reliance Infrastructure
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	50 KW
	During Operation phase (Connected load):	9540.30 KW
	During Operation phase (Demand load):	3852.2 KW
	Transformer:	4 x 1250 kVA
	DG set as Power back-up during operation phase:	2 x 200 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1.Solar water heater
2. Solar lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy conservation by solar hot water system, solar lighting, LED fittings, regenerative drives & energy efficient motors	15.38 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 28,00,000 /-
	O & M cost:	Rs. 2,40,000 /-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-
2	Land	Site Sanitation	Rs. 26,500 /-
3	Health & safety	Site Safety	Rs. 88,000/-
4	Environment Management	Environmental Monitoring	Rs. 1,20,000/-
5	Health & safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	2 STPs	Rs. 80,00,000/-	Rs. 5,00,000 -/
2	Rain Water Harvesting	3 nos of RWH tanks	Rs. 8,50,000 /-	Rs. 45,000 /-
3	Solid Waste Management	2 OWCs	Rs. 20,00,000 /-	Rs. 2,00,000 /-
4	Green Belt Development	90 nos of trees proposed	Rs. 30,00,000	Rs. 5,00,000 -/
5	Solar system	Solar hot water system & solar lighting	Rs. 28,00,000	Rs. 2,40,000 /-
6	Environmental Monitoring	Environment Management	-	Rs. 1,20,000 /-

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project has direct access from 61 m wide Ghatkopar-Mankhurd link road & adjoining existing PL Lokhande Marg

Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Sale building : 3018.76 Sq.m
	Total Parking area:	3161.39 Sq.m
	Area per car:	30 m
	Area per car:	30 m
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	Sale building : 111 nos ; Rehab building : 30 nos
	Public Transport:	Mumbai City buses
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-06-2017

Brief information of the project by SEAC

DECISION OF SEAC

PP was absent; hence the project is deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-II decided to defer the proposal till PP submits the additional information as per above conditions within 30 days