Agenda of 110th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 110 **Meeting Date** August 30, 2019

Subject: Environment Clearance for New Super speciality hospital Building in Dr. D.Y. Patil Hospital Complex located on plot no. 2, Sector 5, Nerul, Navi Mumbai by M/s. Continental Medicare Foundation.

Is a Violation Case: No

1.Name of Project	New Super speciality hospital Building in Dr. D.Y. Patil Hospital Complex
2.Type of institution	Private
3.Name of Project Proponent	M/s. Continental Medicare Foundation.
4.Name of Consultant	Building Environment India Pvt.Ltd.
5.Type of project	Buildings and Constructions
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	D Y Patil Hospital Complex, Plot No – 2, Sector – 5, Nerul, Navi Mumbai
9.Taluka	Thane
10.Village	Nerul Node
Correspondence Name:	Dr Anupam Karmarkar
Room Number:	Administration Department
Floor:	3rd floor
Building Name:	D.Y. Patil Hospital
Road/Street Name:	na
Locality:	Nerul
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	Navi Mumbai
12.IOD/IOA/Concession/Plan Approval Number	Concession Layout approved by Navi Mumbai Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: LOI dated 20.06.2018, Vide Letter NMMC/ TPO/ ADTP/2495/2018
	Approved Built-up Area: 92500
13.Note on the initiated work (If applicable)	Dr. D.Y. Patil Hospital and Research Centre was founded in 2004 over an area of 60000 sq.mt. The hospital has 1500 beds, 100 bed ICU, 15 bed operation theatre, 24x7 charitable casualty and trauma centre. The project had received clearance in 2004 for an area of 20000 sq. m. It got an additional clearance for another 8000 sq.m in 2017. The organisation now plans an expansion in its complex by construction of new super speciality hospital building for which it has received approval from the local authorities. However the total construction area is now going beyond 20000 sq.m and hence the project requires a prior environmental clearance.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI dated 20.06.2018, Vide Letter NMMC/ TPO/ ADTP/2495/2018
15.Total Plot Area (sq. m.)	60000
16.Deductions	--
17.Net Plot area	60000
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 60000*1.541=92500 Total (Existing + Proposed) = (43820.176+44436.400) =88256.0176
	b) Non FSI area (sq. m.): Total (Existing + Proposed) = (3928.01 + 22937.027) = 26865.041
	c) Total BUA area (sq. m.): 67373.427
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 92500 ; Proposed Building : 44436.400 (Existing Hospital Building : 20149+8282.053 = 28431.053 sq. m, Medical College: 15388.012,)
	Approved Non FSI area (sq. m.): 26865.041 Proposed Building :22937.026 (Existing Hospital Building : 3928.01)
	Date of Approval: 20-06-2018
19.Total ground coverage (m2)	6933.323

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	11.56
21.Estimated cost of the project	202000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No 1	2 basement; Ground+ 9 floors	45
2	9Building No 1	2 basement; Ground+ 9 floors	45

23.Number of tenants and shops	none
24.Number of expected residents / users	4989
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)	9 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6-9m
29.Existing structure (s) if any	1 hospital building which has received C.C in 2004 for an area of 20000 sq.m which further received a C.C in 2017 for an area of 8000 sq.m and 15000 sq.m for medical college area had received clearance prior to 2004
30.Details of the demolition with disposal (If applicable)	N.A

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**	NMMC/ STP/ WATER TANKER
	Fresh water (CMD):	240
	Recycled water - Flushing (CMD):	152.4
	Recycled water - Gardening (CMD):	1.6
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	396
	Fire fighting - Underground water tank(CMD):	6.1L/Min/sqm or 37L/Min/m length of water curtain
	Fire fighting - Overhead water tank(CMD):	4.1L/Min/sqm
	Excess treated water	191
Wet season:	**Source of water**	NMMC/RWH/STP
	Fresh water (CMD):	240
	Recycled water - Flushing (CMD):	152.4
	Recycled water - Gardening (CMD):	1.6
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	396
	Fire fighting - Underground water tank(CMD):	6.1L/Min/sqm or 37L/Min/m length of water curtain
	Fire fighting - Overhead water tank(CMD):	4.1L/Min/sqm
	Excess treated water	208
Details of Swimming pool (If any)	na	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	Not applicable	394	394	00	00	00	Not applicable	Not applicable	Not applicable
Domestic	Not applicable	242	242	00	00	00	Not applicable	Not applicable	Not applicable
Gardening	Not applicable	1.6	1.6	00	00	00	Not applicable	Not applicable	Not applicable

Cooling tower & thermopack	Not applicable	176	176	00	00	00	Not applicable	Not applicable	Not applicable

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.50 - 2 m BGL
	Size and no of RWH tank(s) and Quantity:	1 days of storage capacity
	Location of the RWH tank(s):	Underground (Lowest Basement Level)
	Quantity of recharge pits:	NA
	Size of recharge pits :	30 m^3/day – capacity of each recharge pit
	Budgetary allocation (Capital cost) :	10 lacs
	Budgetary allocation (O & M cost) :	1 lac
	Details of UGT tanks if any :	adequate capacity tanks will be provided
35.Storm water drainage	**Natural water drainage pattern:**	NA
	Quantity of storm water:	686.85 M^3/hr
	Size of SWD:	450 mm Wide Channel drain
Sewage and Waste water	**Sewage generation in KLD:**	347
	STP technology:	MBBR
	Capacity of STP (CMD):	01. 350 KLD capacity
	Location & area of the STP:	Underground Basement Level
	Budgetary allocation (Capital cost):	37lacs
	Budgetary allocation (O & M cost):	4 lacs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris & excavated material generated shall be disposed by covered trucks to the authorized sites with permission from NMMC
	Disposal of the construction waste debris:	Debris & excavated material generated shall be disposed by covered trucks to the authorized sites with permission from NMMC
Waste generation in the operation Phase:	**Dry waste:**	540 kg/day
	Wet waste:	707 kg/day
	Hazardous waste:	2000 kg/ year
	Biomedical waste (If applicable):	176.7 Kg/Bed/Day = 477 tonne/ per month
	STP Sludge (Dry sludge):	87.5 Kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed over to NMMC
	Wet waste:	Composting through OWC & used at site/as manure
	Hazardous waste:	Will handed over to authorized dealer
	Biomedical waste (If applicable):	Will handed over to Mumbai Waste Management Limited
	STP Sludge (Dry sludge):	Will be used for landscape and gardening purposes
	Others if any:	NA
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	NA
	O & M cost:	NA

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	Human Anatomical Waste	Yellow	NA	nil	77 tonne/month	77 tonne/month	Incineration / Pyrolysis
2	Soiled waste	Yellow	NA	nil	130 tonne/month	130 tonne/month	Incineration/ Plasma Pyrolysis
3	Expired Discarded Medicines	Yellow	NA	nil	55 tonne/month	55 tonne/month	Either sent back to manufacturer / Incineration
4	Microbiological/ Biotechnological and other chemical lab wastes	Yellow	NA	nil	34 tonne/month	34 tonne/month	Autoclaving
5	Contaminated waste	Red	NA	nil	153 tonne/month	153 tonne/month	Autoclaving
6	Waste Sharps	White	NA	nil	28 tonne/month	28 tonne/month	Autoclaving/ dry heat sterilization followed by mutilation or shredding

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 :**	Not applicable as per NMMC
	No of trees to be cut :	--
	Number of trees to be planted :	--
	List of proposed native trees :	--
	Timeline for completion of plantation :	--

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

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

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	2500 units
	DG set as Power back-up during construction phase	5000 units
	During Operation phase (Connected load):	Primary 11kV distribution electrical plant by the local electricity supply company will be provided in the plot boundary complete with an 11kV electrical intake. 2No electrical 11kV/400V substations will be provided to the building comprising HV switchgear panel and step down transformers. The step down transformer will provide power supply to the building at 415V, 3phase, 50HZ, AC supply.
	During Operation phase (Demand load):	Primary 11kV distribution electrical plant by the local electricity supply company will be provided in the plot boundary complete with an 11kV electrical intake. 2No electrical 11kV/400V substations will be provided to the building comprising HV switchgear panel and step down transformers. The step down transformer will provide power supply to the building at 415V, 3phase, 50HZ, AC supply.
	Transformer:	Primary 11kV distribution electrical plant by the local electricity supply company will be provided in the plot boundary complete with an 11kV electrical intake. 2No electrical 11kV/400V substations will be provided to the building comprising HV switchgear panel and step down transformers. The step down transformer will provide power supply to the building at 415V, 3phase, 50HZ, AC supply.
	DG set as Power back-up during operation phase:	6 DG sets of capacity 1 MVA each
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Power Capacitors are proposed for Common services load power factor correction and to maintain a healthy power situation. This also results in less demand for the project.
The common area lighting are proposed to work on high energy efficient lamps LED type.
Street lighting is proposed with energy efficient LED fittings.
Lifts are proposed with regenerative drives.
No saving considered for internal load of flats/shops since selection of the ac and light fittings is in the user's scope.
Solar water heaters are provided for 50% flats in the buildings.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

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:**	NA
	O & M cost:	NA

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 and Dust Palliation Measure	0.8
2	Land	Site Sanitation	0.25
3	land	Site Safety	0.7
4	Air, water, soil and Bio	Environmental Monitoring	0.25

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	I STP	60	20
2	Ground water Recharge pit	adequate nos	10	3
3	Organic waste converter	adequate nos	19	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:	02

Parking details:	**Number and area of basement:**	2 basements basement 1: 6933.323 sq mt basement 2 6818.404 sq mt
	Number and area of podia:	N. A
	Total Parking area:	755 sq.m
	Area per car:	11.25 sq m
	Area per car:	11.25 sq m
	Number of 2-Wheelers as approved by competent authority:	56
	Number of 4-Wheelers as approved by competent authority:	559
	Public Transport:	NA
	Width of all Internal roads (m):	6-9M
	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	8B
	Court cases pending if any	NONE
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Representative of PP Mr. Rohit Chavan was present during the meeting along with environmental consultant M/S. Building Environment India Pvt.Ltd.

PP informed that, the project under consideration is *proposed buildings and Constructions project. PP further stated that, t*he total plot area of the project is 60000 Sq.mt having total construction area 135943.313 Sq.mt (including existing 68569.89Sq.mt) (Proposed FSI – 44436.4sq.mt +NON FSI- 22937.027Sq.mt, (existing FSI – 52383.365 sq.mt +NON FSI-16186.524Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Building No 1	2 basement; Ground+ 9 floors	45

It is noted that the project earlier considered in 108th (Day-2) Meeting held on 14-08-2019& deferred with observations namely. 1) to submit the dated Architect certificate from CoA registered architect addressed to committee regarding building wise construction done on site prior to 2004, after 2004 & as per earlier environment clearance if issued by local planning authority as per MoEF & CC notification dated 9/12/2016 as informed during the meeting and the documents supporting to that clearance.2) to abide all conditions & remarks for radiation waste received from AERB. Accordingly, PP

DECISION OF SEAC

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

Specific Conditions by SEAC:

24) PP to ensure that, 40% area of STP tanks should be open to sky for adequate ventilation.
25) PP to ensure ECBC norms are complied with.
26) PP to ensure that, the disposal of biomedical waste should as per Bio-Medical Waste Management Rules, 2016 & amendments there to.
27) PP to abide the all conditions of AERB NoC.
28) The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.
29) PP to submit CER prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertaken under CER to be carried out in consultation with Municipal Corporation or collector or Environment Department.

FINAL RECOMMENDATION

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

Agenda of 110th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 110 **Meeting Date** August 30, 2019

Subject: Environment Clearance for Proposed Expansion of Slum Rehabilitation Scheme (SRA) at C.S. No. 1(pt.) , 2(pt.) and 3(pt.) of Lower Parel Division in G/South Ward at G.B. Sakpal Marg and Babu Kamalakant Singh Marg, Dhobighat, Satrasta, Mumbai-400011 for Shree Saibaba Nagar CHS (Prop.) & other 8 Societies by M/s. Omkar Realtors Projects Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Proposed Expansion of Slum Rehabilitation Scheme (SRA) at C.S. No. 1(pt.) , 2(pt.) and 3(pt.) of Lower Parel Division in G/South Ward at G.B. Sakpal Marg and Babu Kamalakant Singh Marg, Dhobighat, Satrasta, Mumbai-400011 for Shree Saibaba Nagar CHS (Prop.) & other 8 Societies by M/s. Omkar Realtors Projects Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	M/s Omkar Realtors Projects Pvt Ltd.
4.Name of Consultant	Building Environment India (Pvt.) Ltd.
5.Type of project	SRA 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	Yes 9th August, 2017
8.Location of the project	Proposed Expansion of Slum Rehabilitation Scheme (SRA) at C.S. No. 1(pt.) , 2(pt.) and 3(pt.) of Lower Parel Division in G/South Ward at G.B. Sakpal Marg and Babu Kamalakant Singh Marg, Dhobighat, Satrasta, Mumbai-400011 for Shree Saibaba Nagar CHS (Prop.) & other 8 Societies by M/s. Omkar Realtors Projects Pvt. Ltd.
9.Taluka	Mumbai
10.Village	Dhobighat
Correspondence Name:	M/s Omkar Realtors Projects Pvt Ltd
Room Number:	NA
Floor:	6th Floor
Building Name:	Omkar House
Road/Street Name:	Opp. Sion- Chunnabhatti Signal
Locality:	Off Eastern Express Highway
City:	Sion (E)-400022 Mumbai, Maharashtra
11.Whether in Corporation / Municipal / other area	Yes Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	Rehab Building No.1: u/no. SRA/ENG./3253/GS/ML/AP dated 05.02.2018 Rehab Building No.2: u/no. SRA/ENG./3810/GS/ML/AP dated 14.06.2018 Sale Building No.1: u/no. SRA/ENG./3809/GS/ML/AP dated 14.06.2018
	IOD/IOA/Concession/Plan Approval Number: Rehab Building No.1: u/no. SRA/ENG./3253/GS/ML/AP dated 05.02.2018 Rehab Building No.2: u/no. SRA/ENG./3810/GS/ML/AP dated 14.06.2018 Sale Building No.1: u/no. SRA/ENG./3809/GS/ML/AP dated 14.06.2018
	Approved Built-up Area: 163182.34
13.Note on the initiated work (If applicable)	Work has been initiated as per Prior Environmental clearance received dtd. 9th August, 2017
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Rehab Building No.1: u/no. SRA/ENG./3253/GS/ML/AP dated 05.02.2018 Rehab Building No.2: u/no. SRA/ENG./3810/GS/ML/AP dated 14.06.2018 Sale Building No.1: u/no. SRA/ENG./3809/GS/ML/AP dated 14.06.2018
15.Total Plot Area (sq. m.)	47593.57 Sq. mt.
16.Deductions	9836.73 Sq.mt.
17.Net Plot area	37756.84 Sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 3,14,251.35 sq.mt
	b) Non FSI area (sq. m.): 4,28,793.16 sq.mt
	c) Total BUA area (sq. m.): 743044.51

18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 1,63,182.34
	Approved Non FSI area (sq. m.): 2,82,189.60
	Date of Approval: 14-06-2018
19.Total ground coverage (m2)	24102.94 Sq. mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	59.61%
21.Estimated cost of the project	37360000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Bldg. No. 1	Basement for Services + Gr. + 42nd (Pt.) Upper Floors	125.05
2	Rehab Bldg. No. 2	GR + 32nd (Pt.) Floors	96.85
3	Reservation Building No. 1	Gr. + 6th upper Floors	27.75
4	Reservation Building No. 2	Gr. + 4th upper Floors	19.95
5	Sale Building No. 1	--	--
6	Tower 1 (South)	2 Lower Ground + Gr.+ 1st to 8th Podium + 9th & 9th A Amenity Floor+/Clubhouse 1st to 65th Upper Floor	262.91 m
7	Tower-2 (Central)	2 Lower Ground + Gr.+ 1st to 8th Podium + 9th & 9th A Amenity Floor/Clubhouse + 1st to 65th Upper Floor	262.91m
8	Tower-3 (North)	2 Lower Ground + Gr.+ 1st to 8th Podium + 9th & 9th A Amenity Floor/Clubhouse + 1st to 66th Upper Floor	259.66 m
9	Sale Building No. 2	3 Basement + Gr. + 1st to 8th Part Podium & Part Residential Floor & 9th Part Amenity/Clubhouse & Part Residential Floor + 1st to 57th Upper Floors	211.65
10	Sale Building No. 2	3 Basement + Gr. + 1st to 8th Part Podium & Part Residential Floor & 9th Part Amenity/Clubhouse & Part Residential Floor + 1st to 57th Upper Floors	211.65

23.Number of tenants and shops	Rehab Bldg. No. 1 Residential: 2973 nos. R/C: 26 nos. Commercial: 118 nos. Existing Amenities (Society office & Temple): 13 nos. BWS & PHC unit: 81 nos. Rehab Bldg. No. 2 Residential: 172 nos. Commercial: 1 no Existing Amenities (Society office & Temple): 6 nos. BWS & PHC unit: 6 nos. Sale Building No. 1 (Tower 1, Tower 2 & Tower 3) Residential: 1236 nos. Sale Building No. 2: Residential: 708 nos.

24.Number of expected residents / users	Rehab Building No. 1: 15922 Rehab Building No. 2: 1005 Sale Building No. 1: 7309 Sale Building No. 2: 3836 Total: 28072.
25.Tenant density per hectare	858.39 tenants per hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	42.60 m wide Sane Guruji Road, 30.48 m wide Dr. E. Mosses Road, 18.30 m J.R. Boricha Marg & 12.20 m wide G.B. Sakpal Marg
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m
29.Existing structure (s) if any	Existing slums partly demolished
30.Details of the demolition with disposal (If applicable)	Existing slums partly demolished

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM/STP Treated Water
	Fresh water (CMD):	Rehab-1:1352 Rehab-2:79 Sale-1:824 Sale-2:342 Total:2597
	Recycled water - Flushing (CMD):	Rehab-1:684 Rehab-2:42 Sale-1:355 Sale-2:171 Total:1252
	Recycled water - Gardening (CMD):	Rehab-1:36 Rehab-2:11 Sale-1:43 Sale-2:3 Total:93
	Swimming pool make up (Cum):	Rehab-1: -- Rehab-2: -- Sale-1:46 Sale-2: -- Total:46
	Total Water Requirement (CMD) :	Rehab-1:2073 Rehab-2:132 Sale-1:1268 Sale-2:516 Total:3989
	Fire fighting - Underground water tank(CMD):	as per Fire NOC
	Fire fighting - Overhead water tank(CMD):	as per Fire NOC
	Excess treated water	Rehab-1:1087 Rehab-2:52 Sale-1:537 Sale-2:304 Total:1979

Wet season:	**Source of water**	MCGM/STP Treated Water/RWH
	Fresh water (CMD):	Rehab-1:1352 Rehab-2:79 Sale-1:824 Sale-2:342 Total:2597
	Recycled water - Flushing (CMD):	Rehab-1:684 Rehab-2:42 Sale-1:355 Sale-2:171 Total:1252
	Recycled water - Gardening (CMD):	Rehab-1: Nil Rehab-2: Nil Sale-1: Nil Sale-2: Nil Total: Nil
	Swimming pool make up (Cum):	Rehab-1:-- Rehab-2:-- Sale-1:46 Sale-2:-- Total:46
	Total Water Requirement (CMD) :	Rehab-1:2036 Rehab-2:121 Sale-1:1225 Sale-2:513 Total:3895
	Fire fighting - Underground water tank(CMD):	as per Fire NOC
	Fire fighting - Overhead water tank(CMD):	as per Fire NOC
	Excess treated water	Rehab-1:1123 Rehab-2:63 Sale-1:580 Sale-2:307 Total:2072
Details of Swimming pool (If any)	Make up water: 46 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:**	2 – 3 m below ground level
	Size and no of RWH tank(s) and Quantity:	Rehab 1: 2 Nos. of RWH Tank (Capacity: 175+80=255 KLD) Rehab 2: 1 No. of RWH Tank (Capacity: 18 KLD) Sale 1: 3 Nos. of RWH Tank (Capacity: Tower 1: 187 KLD, Tower 2: 120 KLD, Tower 3: 130 KLD) Sale 2: 1 No. of RWH Tank (Capacity: 68 KLD)
	Location of the RWH tank(s):	Rehab 1: Below Ground Rehab 2: Below Ground Sale 1: Basement 2 Sale 2: Basement 1
	Quantity of recharge pits:	Nil
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rehab 1: 35 Lakhs Rehab 2: 2 Lakhs Sale 1: 23 Lakhs Sale 2: 13.5 Lakhs
	Budgetary allocation (O & M cost) :	Rehab 1: 3.5 Lakhs/year Rehab 2: 0.2 Lakhs/year Sale 1: 2.3 Lakhs/year Sale 2: 1.0 Lakhs/year
	Details of UGT tanks if any :	--

35.Storm water drainage	**Natural water drainage pattern:**	The arrangement for disposal of SW through and from the plot as per the remarks of SW department, MCGM
	Quantity of storm water:	Total Runoff for Rehab 1: 0.21 Cum/sec, Total Runoff for Rehab 2: 0.12 Cum/sec, Total Runoff for Sale: 0.22 Cum/sec
	Size of SWD:	Carrying capacity of drain – 0.281 Cum/sec
Sewage and Waste water	**Sewage generation in KLD:**	Rehab-1:1901 Rehab-2:113 Sale-1:1038 Sale-2:479 Total:3530
	STP technology:	MBBR
	Capacity of STP (CMD):	Rehab Building 1: 1 STP of capacity 1900 KLD Rehab Building 2: 1 STP of capacity 115 KLD Sale Building 1: 1 STP of capacity 1068 KLD Sale Building 2: 1 STP of capacity 530 KLD
	Location & area of the STP:	Rehab 1: Below Ground Rehab 2: Below Ground Sale 1: Basement 1 Sale 2: Basement 1
	Budgetary allocation (Capital cost):	Rehab 1: 1400 Lakhs Rehab 2: 96 Lakhs Sale 1: 1600 Lakhs Sale 2: 795 Lakhs
	Budgetary allocation (O & M cost):	Rehab 1: 140 Lakhs/year Rehab 2: 9.6 Lakhs/year Sale 1: 160 Lakhs/year Sale 2: 7.95 Lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Demolition Waste :1,47,64,588 KG Construction Waste: 3,71,52,225.5 Kg
	Disposal of the construction waste debris:	Construction waste will be disposed according to C&D waste rules 2016
Waste generation in the operation Phase:	**Dry waste:**	Rehab-1:3079 Kg/day Rehab-2:177 Kg/day Sale-1:2577 Kg/day Sale-2:708 Kg/day Total:6541 Kg/day
	Wet waste:	Rehab-1: 4747 Kg/day Rehab-2:276 Kg/day Sale-1:1718 Kg/day Sale-2:1100 Kg/day Total: 6172 Kg/day
	Hazardous waste:	Waste oil from DG sets
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Rehab 1: 116 Kg/day Rehab 2: 7 Kg/day Sale 1: Kg/day Sale 2: 27 Kg/day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Will be disposed through recyclers
	Wet waste:	Will be treated in OWC
	Hazardous waste:	waste oil from DG sets
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	After treatment in OWC will be used as soil conditioner
	Others if any:	Shall be given to vendors
Area requirement:	**Location(s):**	Rehab Building no. 1: Ground Rehab Building no. 2: Ground Sale Building no. 1 (Tower 1, 2 & 3): Ground Sale Building no.2: Ground
	Area for the storage of waste & other material:	--
	Area for machinery:	Rehab: 100 sq.m Sale: 150 sq.m

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rehab 1: 100 Lakhs Rehab 2: 11 Lakhs Sale 1: 60 Lakhs Sale 2: 44 Lakhs
	O & M cost:	Rehab 1: 10 Lakhs/year Rehab 2: 1.1 Lakhs/year Sale 1: 6.0 Lakhs/year Sale 2: 4.4 Lakhs/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	RG on ground- 3079.95 sq.m
	No of trees to be cut :	01
	Number of trees to be planted :	154
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	Till completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Pongamia pinnata	Karanj	14	Shady tree
2	Bauhinia racemosa	Apta	15	Small tree with small white flowers, butterfly host plant
3	Azadiracta indica	Neem	20	arge tree, good for roadside plantation
4	Anthocephallus cadamba	Kadamb	09	Shadt, large deciduous tree, fast growing graceful tree, ball shaped flowers
5	Cassia fistula	Bhava	15	Medium sized deciduous tree, beautiful yellow flowers, Butterfly host plant
6	Saraca asoka	Sita Ashoka	14	Shady tree with red yellow flowers
7	Mimusops elengi	Bakul	13	Shady tree, small white fragrant flowers
8	Michalia champaca	Son chapa	17	Medium sized evergreen tree, fragrant yellow flowers, butterfly host plant
9	Ficus retusa	Nandruk	11	Shady tree, good for roadside plantation
10	Butea monosperma	Palas	14	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
11	Albizia lebbeck	Shirish	10	Decidious tree
12	Total (Including Transplanted and retained)	--	154	--
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	Kaner	10	--
2	White plumbago (Chitrak)	5	--
3	Kusar/Ran jai	8	--
4	Krushna kamal	10	--

47.Energy

Power requirement:	**Source of power supply :**	BEST
	During Construction Phase: (Demand Load)	100kVA
	DG set as Power back-up during construction phase	as per requirement
	During Operation phase (Connected load):	Rehab Building No. 1: 21142 KW Rehab Building No. 2: 1346 KW Sale Building No. 1 (Tower 1, 2 & 3): 41123 KW Sale Building No. 2: 11283 KW
	During Operation phase (Demand load):	Rehab Building No. 1: 13090 KW Rehab Building No. 2: 854 KW Sale Building No. 1 (Tower 1, 2 & 3): 17199 KW Sale Building No. 2: 6879 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	Rehab Building No.: 1*1500 kVA Rehab Building No. 2: 1*250 kVA Sale Building No. 1: Tower 1: 1*2500 kVA Tower 2: 1*2500 kVA Tower 3: 1*2500 kVA Sale Building No. 2 1*800 kVA
	Fuel used:	High Speed Diesel (HSD)
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Saving Due to Grid Connected Solar Lighting
Saving Due to Grid Connected Solar Power
Saving External Lighitng on Solar

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Rehab Bldg.1	7 %
2	Rehab Bldg.2	7%
3	Sale Bldg.1	1 %
4	Sale Bldg.2	3 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water	Not applicable	STP
Soil and Land	Not applicable	OWC

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	R1: 110, R2: 60, S1 :80, S2: 60
	O & M cost:	R1: 1.1, R2: 0.6, S1: 0.8, S2: 0.6

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling System	Capital Cost (in Lacs) : ---- & O& M Cost (In Lacs/Year) :0.8

2	Water Environment	Water for construction works and mobile toilets.	Capital Cost (in Lacs) : ---- & O& M Cost (In Lacs/Year) :1.8
3	Noise Environment	Site Barricading	Capital Cost (in Lacs) : 3.6 & O& M Cost (In Lacs/Year) :----
4	Land environment	Mobile STP	Capital Cost (in Lacs) : 4 & O& M Cost (In Lacs/Year) : 0.6
5	Socio- economic environment	Disinfection- pest control	Capital Cost (in Lacs) : ---- & O& M Cost (In Lacs/Year) : 0.24
6	Socio- economic environment	first aid facilities	Capital Cost (in Lacs) : 0.36 & O& M Cost (In Lacs/Year) : -- --
7	Socio- economic environment	Health check up	Capital Cost (in Lacs) : ---- & O& M Cost (In Lacs/Year) : 0.28
8	Socio- economic environment	Personal protective equipment	Capital Cost (in Lacs) : 2 & O& M Cost (In Lacs/Year) : 0.20
9	External infrastructure	Laydown of sewerline upto municipal existing sewerline	Capital Cost (in Lacs) : 2 & O& M Cost (In Lacs/Year) : ----
10	Total Cost	--	Capital Cost (in Lacs) : 11.96 & O& M Cost (In Lacs/Year) : 3.92

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	RWH	--	R1: 35, R2: 2, S1: 23, S2: 13.5	R1: 3.5, R2: 0.2, S1: 2.3, S2: 1.0
2	OWC	--	R1: 100, R2: 11, S1: 60, S2: 44	R1: 10, R2: 1.1, S1: 0.6, S2: 4.4
3	STP	--	R1: 1400, R2: 96, S1: 1600, S2: 795	R1: 140, R2: 9.6, S1: 160, S2: 7.95
4	Energy	--	R1: 110, R2: 60, S1: 80, S2: 60	R1: 1.1, R2: .06, S1: 0.8, S2: 0.6
5	Total	--	R1: 645, R2: 169, S1: 1763, S2: 912.5	R1: 154.6, R2: 11.5, S1: 169.1 S2: 13.95
6	Landscaping	---	55.00	10.89
7	Total	--	4544.5	360.04

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:	42.60 m wide Sane Guruji Road, 30.48 m wide Dr. E. Mosses Road, 18.30 m J.R. Boricha Marg & 12.20 m wide G.B.Sakpal Marg
Parking details:	**Number and area of basement:**	Sale bldg. 1 – 2 nos. of Basement/Lower Ground and area =20784.88 sq.mt. Sale bldg. 2 – 3 nos. basement and area=17279.13 Sq.Mt.
	Number and area of podia:	Sale bldg. 1 – 9 nos. podium =122118.27 Sq.Mt. sq.mt. Sale bldg. 2 – 9 nos. podium = 28229.76 sq.mt.
	Total Parking area:	4W: Rehab Building: 419 Nos. Sale Building no. 1 (Tower 1, 2 & 3): 2128 Nos. Sale Building no. 2: 885 Nos. 2W:Rehab Building 1: 39 Nos. Rehab Building 2: 22 no. Sale Building no. 1 (Tower 1, 2 & 3): 177 Nos. Sale Building no. 2: 210 Nos.
	Area per car:	Basement: 32 m2 Podium: 28 m2
	Area per car:	Basement: 32 m2 Podium: 28 m2
	Number of 2-Wheelers as approved by competent authority:	Rehab Building: 419 Nos. Sale Building no. 1 (Tower 1, 2 & 3): 2128 Nos. Sale Building no. 2: 885 Nos.
	Number of 4-Wheelers as approved by competent authority:	Rehab Building 1: 39 Nos. Rehab Building 2: 22 no. Sale Building no. 1 (Tower 1, 2 & 3): 177 Nos. Sale Building no. 2: 210 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	Min 6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 b B
	Court cases pending if any	There are no court cases pending with respect to environmental compliance.
	Other Relevant Informations	The details provided are as per the full potential of the project anticipating the future expansions.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	24-10-2017

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes

Subject:	Environment Clearance for Proposed amalgamated Slum Rehabilitation Scheme on plot bearing C.S. No. 1(pt),2(pt) & 3(pt) of lower parel Division, in G/South ward at G.B. Sakpal Marg and Sane Guruji Road, Dhobighat, Satrasta,Mumbai 400011 for "Shree Sai Baba Nagar SRA Co-op. Hsg. Soc. (Prop.) & other 7 societies. by M/s. Omkar Realtors Projects Pvt Ltd.	Proposed Expansion of Slum Rehabilitation Scheme (SRA) at C.S. No. 1(pt.), 2(pt.) and 3(pt.) of Lower Parel Division in G/South Ward at G.B. Sakpal Marg and Babu Kamalakant Singh Marg, Dhobighat, Satrasta, Mumbai-400011 for Shree Saibaba Nagar CHS (Prop.) & other 7 Societies by M/s. Omkar Realtors Projects Pvt Ltd.
1.Name of Project	Proposed amalgamated Slum Rehabilitation Scheme on plot bearing C.S. No. 1(pt), 2(pt) & 3(pt) of lower parel Division, in G/South ward at G.B. Sakpal Marg and Sane Guruji Road, Dhobighat, Satrasta, Mumbai 400011 for "Shree Sai Baba Nagar SRA Co-op. Hsg. Soc. (Prop.) & other 7 societies. by M/s. Omkar Realtors Projects Pvt Ltd.	Proposed Expansion of Slum Rehabilitation Scheme (SRA) at C.S. No. 1(pt.), 2(pt.) and 3(pt.) of Lower Parel Division in G/South Ward at G.B. Sakpal Marg and Babu Kamalakant Singh Marg, Dhobighat, Satrasta, Mumbai-400011 for Shree Saibaba Nagar CHS (Prop.) & other 7 Societies by M/s. Omkar Realtors Projects Pvt Ltd.
2.Type of institution	ToR	Private
6.New project/ expansion in existing project/modernization/ diversification in existing project	Amendment in approved Terms of Reference	Expansion
11.Area of the project	Municipal Corporation of Greater Mumbai	42,542.79
12.IOD/ IOA/ Concession/ Plan Approval Number	Rehab Building No.1: u/no. SRA/ENG./3253/GS/ML/AP dated 05.02.2018 Rehab Building No.2: u/no. SRA/ENG./3810/GS/ML/AP dated 14.06.2018 Sale Building No.1: u/no. SRA/ENG./3809/GS/ML/AP dated 104.06.2018 IOD/IOA/Concession/Plan Approval Number: Rehab Building No.1: u/no. SRA/ENG./3253/GS/ML/AP dated 05.02.2018 Rehab Building No.2: u/no. SRA/ENG./3810/GS/ML/AP dated 14.06.2018 Sale Building No.1: u/no. SRA/ENG./3809/GS/ML/AP dated 104.06.2018 Approved Built-up Area: 163182.34	SRA/ENG/2800/GS/ML/LOI dtd. 25.01.2018 Approved Built-up Area: 163182.34
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Rehab Building No.1: u/no. SRA/ENG./3253/GS/ML/AP dated 05.02.2018 Rehab Building No.2: u/no. SRA/ENG./3810/GS/ML/AP dated 14.06.2018 Sale Building No.1: u/no. SRA/ENG./3809/GS/ML/AP dated 104.06.2018	SRA/ENG/2800/GS/ML/LOI dtd. 25.01.2018
16.Deductions	--	14,993.80
17.Net Plot area	--	27,548.99
18.(a) Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): Non FSI area (sq. m.): Total BUA area (sq. m.):	FSI area (sq. m.): 1,63,182.34 Non FSI area (sq. m.): 2,82,189.60 Total BUA area (sq. m.): 4,45,371.94
18 (b). Approved Built up area as per DCR	Approved FSI area (sq. m.): -- Approved Non FSI area (sq. m.): -- Date of Approval: --	Approved FSI area (sq. m.): 1,63,182.34 Approved Non FSI area (sq. m.): 2,82,189.60 Date of Approval: 25.01.2018
19.Total ground coverage (m2)	27680.14	15516.90
26.Height of the building(s)	--	Rehab Bldg. No. 1:123.10 m Rehab Bldg. No. 2: 93.95 m Tower 1 (South): 247.40 m Tower-2 (Central): 178.35 m Tower-3 (North):39.60 m
29.Existing structure (s) if any	Nil	Partly slum area

30.Details of the demolition with disposal (If applicable)	--	Existing slums partly demolished
32. Total Water Requirement	--	--
Dry season	--	--
Source of water	M.C.G.M	M.C.G.M / STP Treated Sewage / Tanker (Swimming Pool makeup)
Fresh water (CMD):	1564.00	Rehab: 1193 Sale: 298 Total:1491
Recycled water - Flushing (CMD):	795.00	Rehab: 628 Sale: 153 Total:781
Recycled water - Gardening (CMD):	289.00	Rehab: 39 Sale: 8 Total:47
Swimming pool make up (Cum):	--	Rehab: -- Sale: 46 Total: 46
Total Water Requirement (CMD):	2648.00	Rehab: 1860 Sale: 505 Total:2365
Firefighting - Underground water tank (CMD)	--	Rehab 1: 2x200; Rehab 2: 200; Sale:200
Firefighting - Overhead water Tank (CMD)	--	Rehab 1: 1x20; 1x30; Rehab 2: 10; Sale:10
Excess treated water	872.00	Rehab: 872 Sale: 191 Total:1063
Wet season	--	--
Source of water	M.C.G.M	M.C.G.M / RWH / STP Treated Sewage / Tanker (Swimming Pool makeup)
Fresh water (CMD):	1564.00	Rehab: 1193 Sale: 298 Total:1491
Recycled water - Flushing (CMD):	795.00	Rehab: 628 Sale: 153 Total:781
Recycled water - Gardening (CMD):	--	--
Swimming pool make up (Cum):	--	Rehab: -- Sale: 46 Total: 46
Total Water Requirement (CMD):	2359.00	Rehab: 1821 Sale: 497 Total:2318
Firefighting - Underground water tank (CMD)	--	Rehab 1: 2x200; Rehab 2: 200; Sale:200
Firefighting - Overhead water Tank (CMD)	--	Rehab 1: 1x20; 1x30; Rehab 2: 10; Sale:10
Excess treated water	1161.00	Rehab: 910 Sale: 200; Total:1110
34. Rain Water Harvesting (RWH)	--	--
Level of the Ground water table:	2 – 3 m below ground level	2 – 3 m below ground level

Size and no of RWH tank(s) and Quantity:	Rehab Building no. 1: 1 no. of RWH Tanks of total capacity 171 cum Rehab Building no. 2: 1 no. of RWH Tank of capacity 69 cum Sale Building no. 1: Tower 1: 1 no. of RWH Tanks of capacity 130 cum Tower 2: 1 no. of RWH Tanks of capacity 105 cum Tower 3: 1 no. of RWH Tanks of capacity 121 cum	Rehab Building no. 1: 1 no. of RWH Tanks of total capacity 171 cum Rehab Building no. 2: 1 no. of RWH Tank of capacity 69 cum Sale Building no. 1: Tower 1: 1 no. of RWH Tanks of capacity 135 cum Tower 2: 1 no. of RWH Tanks of capacity 117 cum Tower 3: 1 no. of RWH Tanks of capacity 135 cum
36. Sewage and Waste water	--	--
Sewage generation in KLD	Rehab Building no. 1: 1345 KLD Rehab Building no. 2: 356 KLD Sale Building no. 1 (Tower 1, 2 & 3): 455 KLD	Rehab Building no. 1: 1345 KLD Rehab Building no. 2: 356 KLD Sale Building no. 1 (Tower 1, 2 & 3): 391 KLD
STP technology	MBBR	MBBR
No. and Capacity of STP	Rehab Building no. 1: 1 STP of capacity 1350 KLD Rehab Building no. 2:1 STP of capacity 360 KLD Sale Building no. 1 (Tower 1, 2 & 3): 1 STP of capacity 464 KLD	Rehab Building no. 1: 1 STP of capacity 1350 KLD Rehab Building no. 2: 1 STP of capacity 360 KLD Sale Building no. 1 (Tower 1, 2 & 3): 1 STP of capacity 400 KLD
37.Solid waste Management	--	--
Waste generation in the Pre-Construction and Construction phase:	--	--
Waste generation:	Shall be done as per debris management plan	About 76577 cum of excavated materials will be generated. The project is a Slum Rehabilitation Scheme. Currently the land is partly covered by slum hutments. Large quantity of waste will be generated from the demolition activity. The total area to be demolished around 36,911.47 sq.mt.
Disposal of the construction waste debris:	Shall be done as per debris management plan	The areas has been designated for the temporary storage and after maximum utilization on site, remaining waste will be disposed as per C & D Waste Management Rule, 2016.
Waste generation in the operation Phase:	--	--
Dry waste	Rehab Building no. 1: 2042 Kg/day Rehab Building no. 2: 498 Kg/day Sale Building no. 1 (Tower 1, 2 & 3): 673 Kg/day	Rehab Building no. 1: 2042 Kg/day Rehab Building no. 2: 498 Kg/day Sale Building no. 1 (Tower 1, 2 & 3): 673 Kg/day
Wet waste	Rehab Building no. 1: 3063 Kg/day Rehab Building no. 2: 747 Kg/day Sale Building no. 1 (Tower 1, 2 & 3): 1011 Kg/day	Rehab Building no. 1: 3063 Kg/day Rehab Building no. 2: 747 Kg/day Sale Building no. 1 (Tower 1, 2 & 3): 1011 Kg/day
Hazardous waste	NA	Not quantified at this stage
Biomedical waste (If applicable)	NA	--
STP Sludge	113 Kg/day	Rehab: 113 Kg/day Sale: 40 Kg/day
Others if any	--	--
Mode of Disposal of waste:	--	--
Dry waste	Shall be given to vendors	Shall be given to vendors
Wet waste	Shall be treated in OWC	Shall be treated in OWC
Hazardous waste	NA	NA
Biomedical waste (If applicable)	NA	NA

STP Sludge	Shall be used as manure	Shall be used as manure
Others if any	NA	Shall be given to vendors
Area requirement:	--	--
Location (s)	Rehab Building no. 1: Ground Rehab Building no. 2: Ground Sale Building no. 1 (Tower 1, 2 & 3): Ground	Rehab Building no. 1: Ground Rehab Building no. 2: Ground Sale Building no. 1 (Tower 1, 2 & 3): Ground
Area for the storage of waste & other material	--	--
Area for machinery	--	Rehab: 100 sq.m Sale: 100 sq.m
44. Green Belt Development	--	--
Total RG area	RG on ground- 3449.29 sq.m. DP RG:2458.38 sq.m.	RG on ground- 3449.29 sq.m. DP RG:2458.38 sq.m.
No of trees to be cut	07	01
Number of new trees to be planted:	172	172
List of proposed native trees:	Enclosed below	Enclosed below
Timeline for completion of plantation	Till completion of project	Till completion of project
48.Energy	--	--
Power requirement	--	--
Source of power supply:	BEST	BEST
During Construction Phase: (Demand Load)	100kVA	100kVA
DG set as Power back-up during construction phase	--	3x350 kVA
During Operation phase (Connected load):	Rehab: 17794 KW Sale Building no. 1 (Tower 1, 2 & 3): 49841 KW	Rehab: 17794 KW Sale Building no. 1 (Tower 1, 2 & 3): 31695 KW
During Operation phase (Demand load):	Rehab: 9436 KW Sale Building no. 1 (Tower 1, 2 & 3): 10282 KW	Rehab: 9436 KW Sale Building no. 1 (Tower 1, 2 & 3): 10282 KW
Transformer:	--	--
DG set as Power back-up during operation phase	Rehab Building no. 1: 1*1250 kVA Rehab Building no. 2: 1*500 kVA Sale Building no. 1 (Tower 1, 2 & 3): 3x2000 kVA each	Rehab Building no. 1: 1*1250 kVA Rehab Building no. 2: 1*500 kVA Sale Building no. 1 (Tower 1, 2 & 3): Tower 1: 1*2500 kVA Tower 2: 1*2500 kVA Tower 3: 1*2000 kVA
Fuel used:	HSD	HSD
Details of high-tension line passing through the plot if any:	NA	NA
49.Energy saving by non-conventional method:	--	External lighting will be provided on solar
50.Detail calculations & % of saving:	--	--

Energy Conservation Measures	--	By using LED Light In Common Area VFD For Lifts Highly efficient pump for Plumbing and STP Pumps External Lighting will be on Solar lighting system In Residential area Using combination of T5 along with BEE rated 3 Star equipments like Fan, AC, Geyser & other equipment. (Over all Savings)
Saving %	Rehab Building no. 1: 5% Rehab Building no. 2: 10% Sale Building no. 1 (Tower 1, 2 & 3): 12.2%	Rehab Building no. 1: 5% Rehab Building no. 2: 10% Sale Building no. 1 (Tower 1, 2 & 3): 0.5%
51.Details of pollution control Systems	--	--
Existing pollution control system	--	--
Source: Water	--	--
Sources : Soil & Land	--	--
Proposed to be installed	--	--
Source: Water	--	STP
Sources : Soil & Land	--	OWC
52.Environmental Management plan Budgetary Allocation	--	--
b) Operation Phase (with Break-up):	--	--
3 RWH Tanks	Capital cost Rs. in Lacs :R-1: 35, R-2: 14, S-1: 20; Operational and Maintenance cost (Rs. in Lacs/yr): R-1: 3.5, R-2: 1.4, S-1:0.2	Capital cost Rs. in Lacs :R-1: 35, R-2: 14, S-1: 20; Operational and Maintenance cost (Rs. in Lacs/yr): R-1: 3.5, R-2: 1.4, S-1:0.2
3 OWC	Capital cost Rs. in Lacs :R-1: 100, R-2: 30, S-1: 60; Operational and Maintenance cost (Rs. in Lacs/yr): R-1: 10, R-2: 3, S-1:6	Capital cost Rs. in Lacs :R-1: 100, R-2: 30, S-1: 60; Operational and Maintenance cost (Rs. in Lacs/yr): R-1: 10, R-2: 3, S-1:6
3 STP	Capital cost Rs. in Lacs :R-1: 1000, R-2: 300, S-1: 600; Operational and Maintenance cost (Rs. in Lacs/yr): R-1: 100, R-2: 30, S-1:60	Capital cost Rs. in Lacs :R-1: 1000, R-2: 300, S-1: 600; Operational and Maintenance cost (Rs. in Lacs/yr): R-1: 100, R-2: 30, S-1:60
Energy	Capital cost Rs. in Lacs :R-1: 110, R-2: 0.6, S-1: 0.8; Operational and Maintenance cost (Rs. in Lacs/yr): R-1: 1.10, R-2: 1.4, S-1:0.2	Capital cost Rs. in Lacs :R-1: 110, R-2: 0.6, S-1: 0.8; Operational and Maintenance cost (Rs. in Lacs/yr): R-1: 1.10, R-2: 1.4, S-1:0.2
Total	Capital cost Rs. in Lacs :R-1: 1245, R-2: 404, S-1: 760; Operational and Maintenance cost (Rs. in Lacs/yr): R-1: 114.6, R-2: 35, S-1:68.80	Capital cost Rs. in Lacs :R-1: 1245, R-2: 404, S-1: 760; Operational and Maintenance cost (Rs. in Lacs/yr): R-1: 114.6, R-2: 35, S-1:68.80
Landscaping	Capital cost Rs. in Lacs: 55.00; Operational and Maintenance cost (Rs. in Lacs/yr):10.89	Capital cost Rs. in Lacs: 55.00; Operational and Maintenance cost (Rs. in Lacs/yr):10.89
Total	Capital cost Rs. in Lacs: 2464; Operational and Maintenance cost (Rs. in Lacs/yr): 229.29	Capital cost Rs. in Lacs: 2464; Operational and Maintenance cost (Rs. in Lacs/yr): 229.29

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP was present during the meeting along with environmental consultant M/s. Building Environment India (Pvt.) Ltd.

PP informed that, the project under consideration is *expansion in SRA scheme project. PP further stated that,* the total plot area of the project is 47593.57Sq.mt. having total construction area 743044.51 Sq.mt. (FSI - 322840.9Sq.mt. + NON FSI- 420203.61Sq.mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Rehab Bldg. No. 1	Gr. + 42nd (Pt.) Upper Floors	125.05
Rehab Bldg. No. 2	GR + 32nd (Pt.) Floors	96.85
Reservation Building No. 1	Gr. + 6th upper Floors	27.75
Reservation Building No. 2	Gr. + 4th upper Floors	19.95
Tower 1 (South)	2 Lower Ground + Gr.+ 1st to 8th Podium + 9th & 9th A Amenity Floor+/Clubhouse 1st to 65th Upper Floor	246.40
Tower-2 (Central)	2 Lower Ground + Gr.+ 1st to 8th Podium + 9th & 9th A Amenity Floor/Clubhouse + 1st to 65th Upper Floor	246.80
Tower-3 (North)	2 Lower Ground + Gr.+ 1st to 8th Podium + 9th & 9th A Amenity Floor/Clubhouse + 1st to 66th Upper Floor	250.00
Sale Building No. 2	3 Basement + Gr. + 1st to 8th Part Podium & Part Residential Floor & 9th Part Amenity/Clubhouse & Part Residential Floor + 1st to 57th Upper Floors	211.65

It is noted that, Project has received Environmental clearance vide letter dated 9th August, 2017.

It is noted that the project earlier considered in 106th (Day-2) Meeting held on 20-07-2019& deferred with observations namely. 1) demolition waste, and concrete debris can be recycled for making paver blocks and use these to the extent possible in the project itself. 2) to upload the copy of SRA NoC dated 22/5/2019. 3) to ensure that, all STPs should be with minimum 40% area open to sky for adequate ventilation. 4) to upload the HRC NoC. 5) Committee suggested to develop the “miyawaki forest” in RG reservation area to reduce the heat island effect with approval from local planning authority. 6) to ensure that school building should be as per RTE Act. 7) to submit the traffic study data from MSRDC/MMRDA 8) to earmark the two wheeler parking. 9) to revise the traffic study considering the two wheeler vehicles also along with speed of the vehicles. Accordingly, PP submitted the compliance which was taken on record.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) As agreed by PP, PP to ensure that, the demolition waste, and concrete debris to be recycled for making paver blocks and use these to the extent possible in the project itself.
2) PP to ensure that proposed STP should be on ground as shown during the presentation with minimum 40% openness to sky for adequate ventilation.
3) PP to explore the possibility to develop the “miyawaki forest” in RG area of the project.
4) The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.
5) PP to submit CER prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertaken under CER to be carried out in consultation with Municipal Corporation or collector or Environment Department.

FINAL RECOMMENDATION

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

Agenda of 110th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 110 **Meeting Date** August 30, 2019

Subject: Environment Clearance for Proposed Vertical Expansion of Children Hospital at Lower Parel Division, Hornby Vellard Estate Scheme, Mumbai

Is a Violation Case: No

1.Name of Project	Proposed Vertical Expansion of Children Hospital at Lower Parel Division, Hornby Vellard Estate Scheme, Mumbai
2.Type of institution	Private
3.Name of Project Proponent	M/s. Society for Rehabilitation of Crippled Children
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	Vertical Expansion of Children Hospital
6.New project/expansion in existing project/modernization/diversification in existing project	Vertical Expansion of Children Hospital
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Received CRZ NOC dated 04.01.2007 and 23.11.2010. Received Occupancy certificate for Wing 1 dt. 25.09.2009; Received Part Occupancy certificate for Wing 2 dt. 18.2.2017
8.Location of the project	Plot bearing C.S. No. 5/47 (pt), 47(pt) of Lower Parel Division, Plot no. 10 Hornby Vellard Estate Scheme, Mumbai
9.Taluka	Mumbai
10.Village	Lower Parel
Correspondence Name:	M/s. Society for Rehabilitation of Crippled Children
Room Number:	--
Floor:	--
Building Name:	Society for Rehabilitation of Crippled Children, Children Orthopedic Hospital
Road/Street Name:	Plot No. 10
Locality:	Haji Ali
City:	Mumbai
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	Amended IOD Plan Approval Number: EB/2130/GS/A dated 17.01.2018
	IOD/IOA/Concession/Plan Approval Number: Amended IOD Plan Approval Number: EB/2130/GS/A dated 17.01.2018
	Approved Built-up Area: 17723.07
13.Note on the initiated work (If applicable)	Total constructed work (FSI+ Non FSI): 19979.58 Sq. mt.; Received Occupancy certificate for Wing 1 dt. 25.09.2009; Received Part Occupancy certificate for Wing 2 dt. 18.2.2017
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	7352.80 Sq. mt.
16.Deductions	--
17.Net Plot area	7352.80 Sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20254.17 Sq. mt.
	b) Non FSI area (sq. m.): 3230.93 Sq. mt.
	c) Total BUA area (sq. m.): 23485.10
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 17723.07 Sq. mt.
	Approved Non FSI area (sq. m.): 3230.93 Sq. mt.
	Date of Approval: 17-01-2018
19.Total ground coverage (m2)	4204.14 Sq. mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	57 %
21.Estimated cost of the project	1038800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1 Hospital Building with 2 Wings	--	--
2	Wing 1	Ground + 5 Floors	20.70 mt. (up to terrace level)
3	Wing 2	Basement + Ground + 1st to 3rd Floor + 4th (Pt) Floor	20.60 mt. (up to terrace level)

23.Number of tenants and shops	Wing 1: Rehabilitation center Wing 2: 233 Beds
24.Number of expected residents / users	Floating population - Wing 1: 278 Nos. Wing 2: 467 Nos.
25.Tenant density per hectare	--
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 mt. wide Kesharao Khadye Marg
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Average 8.00 mt.
29.Existing structure (s) if any	Wing 1: Occupied and Wing 2: Completed and Occupied up to 3rd floor
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	M.C.G.M./Tanker water
	Fresh water (CMD):	184 (Domestic: From M.C.G.M.= 146 and Cooling tower make up water: From tanker water = 38 KLD)
	Recycled water - Flushing (CMD):	171 (Flushing = 75 KLD And Cooling tower make up water = 96 KLD)
	Recycled water - Gardening (CMD):	2 KLD
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	357 KLD
	Fire fighting - Underground water tank(CMD):	304 Cum
	Fire fighting - Overhead water tank(CMD):	36 Cum
	Excess treated water	0
Wet season:	**Source of water**	M.C.G.M./Tanker water/ RWH tank
	Fresh water (CMD):	182 (Domestic: From M.C.G.M.= 146 and Cooling tower make up water: From tanker water = 36 KLD)
	Recycled water - Flushing (CMD):	173 (Flushing = 75 KLD And Cooling tower make up water = 98 KLD)
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	355 KLD
	Fire fighting - Underground water tank(CMD):	304 Cum
	Fire fighting - Overhead water tank(CMD):	36 Cum
	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	--	--	--	--	--	--	--	--	--

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.0 mt. below ground level
	Size and no of RWH tank(s) and Quantity:	Rain Water Harvesting tank of capacity 138 KL for Wing 2
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Rs. 16.80 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.75 Lacs/annum
	Details of UGT tanks if any :	Wing 1: Underground Wing 2: Basement
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:	0.18 m3/sec
	Size of SWD:	450 mm dia with slope 1:300
Sewage and Waste water	**Sewage generation in KLD:**	192 KLD
	STP technology:	MBBR (Moving Bed Bio Reactor)
	Capacity of STP (CMD):	One STP of 200 KL
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	Rs. 38.50 Lacs
	Budgetary allocation (O & M cost):	Rs. 15.86 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	--
	Disposal of the construction waste debris:	Construction waste which shall be generated during construction activity shall be partly recycled and remaining shall be disposed to authorized landfill site with permission of M.C.G.M.
Waste generation in the operation Phase:	**Dry waste:**	45 kg/day
	Wet waste:	30 kg/day
	Hazardous waste:	5 kg/day
	Biomedical waste (If applicable):	88 kg/day
	STP Sludge (Dry sludge):	29 kg/day
	Others if any:	--

Mode of Disposal of waste:	**Dry waste:**	To Authorized recyclers
	Wet waste:	Treatment in Organic Waste Converter (OWC)
	Hazardous waste:	Agreement with SMS Envoclean Pvt. Ltd for disposal
	Biomedical waste (If applicable):	Agreement with SMS Envoclean Pvt. Ltd. for disposal as per Bio-Medical Waste Management Rules, 2016
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	--
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	5 Sq. mt. Bio-medical waste storage, 10 Sq.mt. for other Municipal waste
	Area for machinery:	10 Sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 5.20 Lacs
	O & M cost:	Rs. 3.08 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	--	--	--	--	--	--	--

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	D G Sets	--	--	--	--	--

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1502.48 Sq. mt.
	No of trees to be cut :	Cut trees: 12 nos.
	Number of trees to be planted :	32 nos. of trees are already planted on site
	List of proposed native trees :	--
	Timeline for completion of plantation :	Already done

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

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

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

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

47.Energy

Power requirement:	**Source of power supply :**	Brihan Mumbai Electric Supply & Transport (BEST)
	During Construction Phase: (Demand Load)	--
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	4129 KW
	During Operation phase (Demand load):	1320 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	2 D.G. Sets of capacity 750 kVA each
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

? Provision of fluorescent fittings
? Provision of LED lights
? Provision of Solar water heating system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	Total energy saving	23 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	STP	--
Solid waste	OWC	--

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 30.00 Lacs
	O & M cost:	Rs. 0.25 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	1.44
2	Air Environment	Air & Noise Quality Monitoring -By outside MoEF Approved Laboratory	0.44
3	Air Environment	Air & Noise Quality Monitoring -Sensors for Air quality & Noise level monitoring	11.00
4	Water Environment	Drinking water analysis	0.06
5	Land Environment	Site Sanitation	5.00
6	Health & Hygiene	Disinfection- Pest Control	2.40
7	Health & Hygiene	Health Check Up of workers	1.80
8	Disaster Management	--	10.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	AIR & NOISE ENVIRONMENT	Cost for Ambient Air quality & Noise Monitoring- By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.22
2	AIR & NOISE ENVIRONMENT	Cost for Ambient Air quality & Noise Monitoring - On site sensors	No set up cost is involved as already considered Construction Phase	0.50
3	AIR & NOISE ENVIRONMENT	Cost for DG Stack Exhaust Monitoring	No set up cost is involved	0.10
4	AIR & NOISE ENVIRONMENT	Cost for Plantation	3.00	0.25
5	WATER ENVIRONMENT	Cost for Sewage Treatment Plant	38.50	6.00

6	WATER ENVIRONMENT	Cost for water & waste water Monitoring - By outside MoEF & CC Approved Laboratory	No set up cost is involved	9.86
7	WATER ENVIRONMENT	Cost for RWH tanks	13.80	0.69
8	WATER ENVIRONMENT	Cost for Rainwater Monitoring	No set up cost is involved	0.05
9	LAND ENVIRONMENT	Cost for Treatment of biodegradable garbage	5.20	3.00
10	LAND ENVIRONMENT	Cost for Monitoring of OWC manure	No set up cost is involved	0.08
11	ENERGY CONSERVATION	Use of renewable energy - Solar system	30.00	0.24
12	DISASTER MANAGEMENT	--	205.00	112.50

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	One Basement
	Number and area of podia:	Not Applicable
	Total Parking area:	2900.00 Sq. mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	138 Nos. (Including Ambulance and Handicapped parking (2 nos.)
	Public Transport:	Ambulance and Handicapped parking
	Width of all Internal roads (m):	Minimum 6.00 mt.
	CRZ/ RRZ clearance obtain, if any:	Received CRZ NOC dated 04.01.2007 and 23.11.2010 (CRZ NOC attached as Enclosure in Forms)
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Arabian Sea: 60 mt.
	Category as per schedule of EIA Notification sheet	Category 8 (a)
	Court cases pending if any	Nil
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	23-05-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP was absent; hence the project is deferred.

DECISION OF SEAC

PP was absent; hence the project is deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 110th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 110 **Meeting Date** August 30, 2019

Subject: Environment Clearance for Environmental clearance for expansion of proposed residential project with commercial/ shop line.

Is a Violation Case: No

1.Name of Project	Paramount
2.Type of institution	Private
3.Name of Project Proponent	m/s. Ananta Landmark Pvt. Ltd.
4.Name of Consultant	M/s. Enviro Analyst & Engineers Pvt. Ltd.
5.Type of project	Residential project with commercial/ shop line.
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	Previous EC received vide letter No. SEAC-2010/CR- 672/TC-II dated. 25 March 2014
8.Location of the project	PROPOSED DEVELOPMENT ON PLOT BEARING S.NO. 113/1(Pt.), 113/2B, 113/3, 113/4, 113/5, 113/6, 113/7, 113/8, 113/9/2, 113/10, 113/11, 113/12(Pt.), 113/13, 113/14, 113/16A, 113/16B, 113/17A, 13/19B/1, 114/1/B, 114/2/B, 114/3, 114/4, 114/5, 114/6, 114/7, 114/8, 114/9A, 114/10A, 114/10C, 115/4/2, 115/5, 115/6, 115/7/2, 115/8/2, 115/9, 115/10/2, 115/11, 115/12, 115/13, 115/14, 115/15 AT VILLAGE MAJIWADE, THANE.
9.Taluka	Thane
10.Village	Majiwada & Balkum
Correspondence Name:	Mr. Narendra Lodha
Room Number:	101
Floor:	10th Floor
Building Name:	Kalpataru Synergy
Road/Street Name:	Opp. Grand Hyatt
Locality:	Vakola, Santacruz (E)
City:	Mumbai
11.Whether in Corporation / Municipal / other area	Thane Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Building permission obtained from Thane Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: Building permission obtained vide Letter No. Old/88/381/TMC/ TPD/2257/17 dated 26/7/17
	Approved Built-up Area: 92303.44
13.Note on the initiated work (If applicable)	Site not started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	33,730.00 sq. mt.
16.Deductions	11,890.00 sq. mt.
17.Net Plot area	21,840.00 sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 60,302.00 sq. mt.
	b) Non FSI area (sq. m.): 89,721.23 sq. mt.
	c) Total BUA area (sq. m.): 150023.60
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 44,048.75 sq. mt.
	Approved Non FSI area (sq. m.): 48,254.63 sq. mt.
	Date of Approval: 25-03-2014
19.Total ground coverage (m2)	12,995.85
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	59.5 %

21.Estimated cost of the project	6214200000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	T1	2B + 1B + Gr/ commrcial + 1P + 2P + 3P/ Stilt + 33 upper floors	116.40
2	T2	2B + 1B + Gr/ commrcial + 1P + 2P + 3P/ Stilt + 33 upper floors	116.40
3	T3	2B + 1B + Gr/ commrcial + 1P + 2P + 3P/ Stilt + 33 upper floors	116.40
4	T4	2B + 1B + Gr/ commrcial + 1P + 2P + 3P/ Stilt + 33 upper floors	116.40
5	T5	2B + 1B + Gr/ commrcial +1P + 2P + 3P/ Stilt + 32 upper floors	113.40

23.Number of tenants and shops	936 Residential tenements and 9 shops
24.Number of expected residents / users	4717 nos.
25.Tenant density per hectare	-
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	60.0 mt. wide 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.
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	TMC/ Recycled water
	Fresh water (CMD):	424 KLD
	Recycled water - Flushing (CMD):	215 KLD
	Recycled water - Gardening (CMD):	44 KLD
	Swimming pool make up (Cum):	15 KL
	Total Water Requirement (CMD) :	683 KLD
	Fire fighting - Underground water tank(CMD):	500 Cu. m.
	Fire fighting - Overhead water tank(CMD):	150 Cu. m.
	Excess treated water	257 KLD
Wet season:	**Source of water**	TMC/ Recycled water
	Fresh water (CMD):	424 KLD
	Recycled water - Flushing (CMD):	215 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	639 KLD
	Fire fighting - Underground water tank(CMD):	500 Cu. m.
	Fire fighting - Overhead water tank(CMD):	150 Cu. m.
	Excess treated water	283 KLD
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Below 5.0 mt.
	Size and no of RWH tank(s) and Quantity:	-
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	17 no. of recharge pits
	Size of recharge pits :	17 no. of recharge pits
	Budgetary allocation (Capital cost) :	59.50 lakhs
	Budgetary allocation (O & M cost) :	0.85 lakh/ year
	Details of UGT tanks if any :	Fire tank of 500 Cu. m. provided
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	Max discharge capacity at outlet = 0.24 Cu.m/ sec.
	Size of SWD:	Avarage width - 600 mm & avarage depth - 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	554 KLD
	STP technology:	Attached growth process
	Capacity of STP (CMD):	600 KLD
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	65.55 lakhs
	Budgetary allocation (O & M cost):	7.20 lakhs/ year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated material to be partly used on site for backfilling and leveling and excess to be disposed off through vendors
	Disposal of the construction waste debris:	Construction waste generated on site shall be reused to maximum extent possible and excess shall be disposed off by vendors
Waste generation in the operation Phase:	**Dry waste:**	940 Kg/ day
	Wet waste:	1407 Kg/ day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	60 Kg/ day
	Others if any:	-

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to local recyclers.
	Wet waste:	Will be processed in OWC.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure.
	Others if any:	-
Area requirement:	**Location(s):**	Ground floor
	Area for the storage of waste & other material:	130.0 sq. mt. including machinary and storage
	Area for machinery:	130.0 sq. mt. including machinary and storage
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	22.0 lakhs
	O & M cost:	4.50 lakhs/ day

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 :**	5,460.00 sq. mt.
	No of trees to be cut :	63 no.
	Number of trees to be planted :	366 no.
	List of proposed native trees :	-
	Timeline for completion of plantation :	At the time of completion of the project

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

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

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	150 KW (estimated)
	DG set as Power back-up during construction phase	-
	During Operation phase (Connected load):	6290 Kw
	During Operation phase (Demand load):	2759 Kw
	Transformer:	Will be as per electrical energy supplier's requirement
	DG set as Power back-up during operation phase:	2 No. of 625 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Process of laying under ground lines is initiated.

48.Energy saving by non-conventional method:

• Energy efficient LED, T5 tube light that gives more light output for the same watts consumed and therefore require less nos. of fixtures.
• Equipment efficiency standard power factor will be maintained between 0.95 and unity for major equipment like Lift, STP etc. This will reduce electrical power distribution losses in the installation.
• Timer based lighting for parking areas.
• Motion Sensor and timers in staircases. Use of VFD drives in lifts.
• Maximum use of natural ventilation and light.
• Recommending the benefits of adopting BEE star rated electrical appliances to the customers to increase energy savings.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	As above	16 %

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:**	16.0 lakhs
	O & M cost:	0.48 Lakhs/ year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	water sprinkling	3.00
2	Environmental Monitoring	environmental monitoring	1.50
3	Health check up	Health check up	1.20
4	Site sanitation	Site sanitation	0.60
5	Disinfection	Disinfection	1.20

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	RWH	-	59.50	0.85
2	Solid waste management	-	22.00	5.50
3	STP	-	65.55	7.20
4	Landscaping	-	105.79	4.23
5	Energy Conservation	-	16.00	0.48

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 is accessible through 60.0 mt. wide road
Parking details:	**Number and area of basement:**	2 basements
	Number and area of podia:	3 no. of podiums
	Total Parking area:	34,735.37 sq. mt.
	Area per car:	30.79
	Area per car:	30.79
	Number of 2-Wheelers as approved by competent authority:	1249
	Number of 4-Wheelers as approved by competent authority:	1190
	Public Transport:	-
	Width of all Internal roads (m):	Min. 6.0 mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	2.85 Km
	Category as per schedule of EIA Notification sheet	8(a), Catagory 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	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
Recycled Water - Gardening	26 KLD	44 KLD
Total water requirement	665 KLD	683 KLD
Capacity of STP	570 KLD	600 KLD
STP Sludge	57 Kg/ day	60 Kg/ day
No. of trees to be cut	67 No.	63 No.
No. of 2-wheeler parking	1238 No.	1249 No.
No. of 4-wheeler parking	1128 No.	1190 No.

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

PP informed that, the project under consideration is *Residential project with commercial/ shop line. PP further stated that, t*he total plot area of the project is 33,730.00 Sq.mt. having total construction area 150023.60 Sq.mt (FSI - 60,302.00 sq.mt +NON FSI- 89,721.23sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
T1	2B + 1B + Gr/ commrcial + 1P + 2P + 3P/ Stilt + 33 upper floors	116.40
T2	2B + 1B + Gr/ commrcial + 1P + 2P + 3P/ Stilt + 33 upper floors	116.40
T3	2B + 1B + Gr/ commrcial + 1P + 2P + 3P/ Stilt + 33 upper floors	116.40
T4	2B + 1B + Gr/ commrcial + 1P + 2P + 3P/ Stilt + 33 upper floors	116.40
T5	2B + 1B + Gr/ commrcial + 1P + 2P + 3P/ Stilt + 32 upper floors	113.40

It is noted that, Project has received Environmental clearance vide letter dated 25 March 2014.

It is noted that the project earlier considered in 106th Meeting Meeting held on 20-07-2019 & deferred with observations namely. 1) to upload the storm water design along with calculation. 2) to ensure that, amenities provided on RG should not be exceed than 10%. and also to provide permeable green paver blocks 3) to upload HRC NoC. 4) to revise the online CS to that extend. 5) to submit the revised RG calculation. 6) to submit the nalla remarks. 7) to ensure that STP should have minimum 40% area open to sky for adequate ventilation 8) to upload the table stating number of flats in T3 tower receiving direct sunlight & number of flats receiving diffused sunlight. Accordingly, PP submitted the compliance which was taken on record.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to ensure that, the foundation level of buildings should be above HFL of nallah.
2) PP to keep STP on ground with minimum 40% open to sky for adequate ventilation.
3) In the 12 meter wide drive way provided on podium for fire tender movement, the outer 6 meter wide drive way may remain hard paved, but inner 6 meter to be of green pavers.
4) The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.
5) PP to submit CER prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertaken under CER to be carried out in consultation with Municipal Corporation or collector or Environment Department.

FINAL RECOMMENDATION

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

Agenda of 110th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 110 **Meeting Date** August 30, 2019

Subject: Environment Clearance for Proposed Amendment in EC for Residential cum Commercial project "Highland Haven" at Old S. NO.- 73/17, S.NO.- 75/ 5 TO 75/ 8, S.NO.- 80/ 1, S.NO.- 82, S.NO.- 81 /3, S.NO.- 83/1/1, 83/1/2, 83/1/3, 83/1/3 pt., 83/ 2, 83/3 pt., 83/3 pt. New S.NO.- 150/17, S.NO.- 152/5 TO 152/8, S.NO.- 160/1, S.NO.- 159, S.NO.-158/3, S.NO.-160/1A, 160/1B, 160/1C, 160/1D, 160/2,160/3B, 160/3C Village: Balkum, Tal & Dist Thane by M/s. Siddhi Krish Developers

Is a Violation Case: No

1.Name of Project	M/s. Siddhi Krish Developers
2.Type of institution	Private
3.Name of Project Proponent	M/s. Siddhi Krish Developers
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., Dr. D. A. Patil
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Earlier EC obtained vide letter no. SEAC-2013/CR-60/TC-1 dated 25th April 2014
8.Location of the project	Old S. NO.- 73/17, S.NO.- 75/ 5 TO 75/ 8, S.NO.- 80/ 1, S.NO.- 82, S.NO.- 81 /3, S.NO.- 83/1/1, 83/1/2, 83/1/3, 83/1/3pt., 83/ 2, 83/3pt., 83/3pt. New S.NO.- 150/17, S.NO.- 152/5 TO 152/8, S.NO.- 160/1, S.NO.- 159, S.NO.-158/3, S.NO.-160/1A, 160/1B, 160/1C, 160/1D, 160/2,160/3B, 160/3C Village: Balkum, Tal & Dist Thane
9.Taluka	Thane
10.Village	Balkum
Correspondence Name:	M/s. Siddhi Krish Developers
Room Number:	-
Floor:	4th Floor
Building Name:	Lake City Mall
Road/Street Name:	Kapurbawadi Junction
Locality:	Majiwade
City:	Thane
11.Whether in Corporation / Municipal / other area	Thane Municipal Corporation (TMC)
12.IOD/IOA/Concession/Plan Approval Number	TMC/TDD/2074/17 dated 01/03/2017; TMC/CFO/M/213/135 dt. 04/02/2017; TMC/CFO/M/35/35 dt. 07/12/2018
	IOD/IOA/Concession/Plan Approval Number: TMC/TDD/2074/17 dated 01/03/2017; TMC/CFO/M/213/135 dt. 04/02/2017; TMC/CFO/M/35/35 dt. 07/12/2018
	Approved Built-up Area: 34188.5
13.Note on the initiated work (If applicable)	Construction work is initiated after receipt of Environmental Clearance. Work on site as of now-total construction area: 36,247.62 m2 (FSI: 18,892.54 m2; Non FSI: 17,355.08 m2)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	38,920 m2
16.Deductions	15,356.51 m2
17.Net Plot area	23,539.00 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 44,665.45 m2
	b) Non FSI area (sq. m.): 40,185.3 m2
	c) Total BUA area (sq. m.): 84851
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 34,054.46 m2
	Approved Non FSI area (sq. m.): 33,202.91 m2
	Date of Approval: 07-12-2018
19.Total ground coverage (m2)	13,795.5 m2

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	57%
21.Estimated cost of the project	2682733375

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1	G/St + Pod + 23rd Floors	75.55 m
2	Building 2	G/St + Pod + 23rd Floors	75.55 m
3	Building 3	St + Pod + 23rd Floors	75.55 m
4	Building 4	St + Pod + 23rd Floors	75.55 m
5	Building 5	St + Pod + 1st to 16th & 17th (pt) Floors	58.15 m
6	Building 6	St + Pod +1st to 29th Floors	95.45 m
7	Building 7	St + Pod +1st to 29th Floors	95.45 m
8	Club House	Gr +1 Floors	7.80 m

23.Number of tenants and shops	Flats: 831 Nos. Commercial Area: 496.16 m2 Club House: 241.57 m2
24.Number of expected residents / users	5,668 Nos.
25.Tenant density per hectare	353/Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The project site is accessible 20 m wide Balkum Saket road on North & West side of plot & 15 m wide D.P. road on South & East side of plot
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Nil
30.Details of the demolition with disposal (If applicable)	Nil

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	TMC
	Fresh water (CMD):	412 KLD
	Recycled water - Flushing (CMD):	217 KLD
	Recycled water - Gardening (CMD):	40 KLD
	Swimming pool make up (Cum):	5 KLD
	Total Water Requirement (CMD) :	634 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	325 KLD
Wet season:	**Source of water**	TMC + RWH
	Fresh water (CMD):	247+165 KLD
	Recycled water - Flushing (CMD):	217 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	634 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	365 KLD
Details of Swimming pool (If any)	Swimming Pool is provided as per norms	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Ground water table at depth of 2.4-3.5 m
	Size and no of RWH tank(s) and Quantity:	4 nos. of RWH tanks having total capacity 165 m2
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	Rs. 38 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 2 Lakhs/year
	Details of UGT tanks if any :	UG Tanks will be provided as per NBC norms
35.Storm water drainage	**Natural water drainage pattern:**	The land is flat. The slope of the area is towards South to North and West to East side
	Quantity of storm water:	The storm water generation 4,551.25 m3/hr
	Size of SWD:	450 x 450 mm internal SWD drains
Sewage and Waste water	**Sewage generation in KLD:**	588 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	600 KLD
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	Rs. 126 Lakhs
	Budgetary allocation (O & M cost):	Rs. 24 Lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: 2,464 m3; Excavation was done for foundation purpose only.
	Disposal of the construction waste debris:	The construction debris waste will be disposed as per Construction debris and demolition waste management Rule 2016
Waste generation in the operation Phase:	**Dry waste:**	952 kg/day
	Wet waste:	1,428 kg/day
	Hazardous waste:	-
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	6 KLD
	Others if any:	Household E waste generation

Mode of Disposal of waste:	**Dry waste:**	Waste will be segregated at source. The recyclable waste will be handed over to the authorized vendor.
	Wet waste:	Wet garbage will be composted using Mechanical Composting unit and the manure will be used manure for landscaping.
	Hazardous waste:	-
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge will be used as manure for gardening
	Others if any:	Household E-waste generation will be handed over to authorized recyclers
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	175 m2
	Area for machinery:	86 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 58 Lakhs
	O & M cost:	Rs. 23 Lakhs/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	RG area Required: 5,884.75 m2; RG area Proposed 7900.59 m2 (RG on Ground: 1,985.83 m2, RG on Podium: 5914.76 m2)
	No of trees to be cut :	Nil
	Number of trees to be planted :	308 Nos.
	List of proposed native trees :	As mentioned below
	Timeline for completion of plantation :	Part landscape is developed on site , remaining will be developed after completion of project (2-3 years)

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	ERYTHRINA INDICA	Pangara	28	As medicinal value, Bird and insect attractive.
2	LAGERSTROEMIA SPECIOSA	Tamhan	25	Edible, mature fruit as medicinal value, Bird and insect attractive.
3	MIMUSOP ELENGI	Bakul	26	As medicinal value, Bird and insect attractive.
4	PONGAMIA PINNATA	Karanj	28	Valued for its oil and insect repellent, having medicinal value.
5	SARACA INDICA	Sita Ashoka	25	As medicinal value, Bird and insect attractive.
6	ANTHOCEPHALUS CADAMBA	Kadamb	25	Shady, large tree, ball shaped flowers.
7	BAUHINIA PURPUREA	Apta	30	Small tree with small white flowers, Butterfly host plant
8	MICHELIA CHAMPACA	Chafa	30	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
9	MILLINGTONIA HORTENSIS	Indian cork tree	32	Evergreen Tree
10	NYCTANTHES ARBOR TRISTIS	Parijat	32	Small deciduous fast growing tree, beautiful flowers.
11	POLYALTHIA LONGIFOLIA	Ashoka Tree	27	Shady tree with red-yellow flowers.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	200 kVA
	DG set as Power back-up during construction phase	200 kVA
	During Operation phase (Connected load):	6.1 MW
	During Operation phase (Demand load):	3.3 MW
	Transformer:	1,600 (1 X 1000 & 1 X 600)
	DG set as Power back-up during operation phase:	1,255 kVA (1 X 625 kVA & 1 X 630 kVA)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	High Tension Line passing through the plot

48.Energy saving by non-conventional method:

- Solar hot water will be provided
- Solar Street lighting in landscape , common area passages

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Savings	22.76 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 65 Lakhs
	O & M cost:	Rs. 3 Lakhs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	6
2	Site sanitation Facility and its maintenance	-	3
3	Potable Water Supply to Labour	-	3
4	Health Check-up & first aid	-	2.5

5	Solid waste management	-	1.6
6	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves etc.)	6
7	Traffic Management (Sign Boards, Persons, at entry exit and Parking area)	-	1.5
8	Safety nets	-	3
9	Safety Training to Workers (Twice in Year), Safety Officer	-	1.5
10	Environmental Monitoring	(As per the CPCB guidelines through MoEF&CC Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time)	4

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	126	24
2	Solar System	Weekly	65	3
3	Rainwater harvesting	During Rainy Season (Cleaning of RWH tanks and Filtration chamber)	38	2
4	Solid Waste Composting plant	Continuous O & M	58	23
5	Landscape Development	Daily	67	7
6	Environmental Monitoring	As per CPCB guildlines through MoEF Approved laboratories	-	4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site is accessible by 20 m wide Balkum Saket road on North & West side of plot & 15 m wide D.P. road on South & East side of plot.
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	No. of Podium: 1; Area of Podium: 11,884.65 m2
	Total Parking area:	Total Parking Area: 13,227.24 m2
	Area per car:	28.5 m2
	Area per car:	28.5 m2
	Number of 2-Wheelers as approved by competent authority:	Parking Required: 856 Nos.; Parking Proposed: 900 Nos.
	Number of 4-Wheelers as approved by competent authority:	Parking Required: 905 Nos.; Parking Provided: 976 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	CRZ Clearance from MCZMA vide Letter No. CRZ2012/CR-27/TC-4 dated 25.10.2013
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Thane Creek: 350 m Sanjay Gandhi National Park: 4.5 km
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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

PP informed that, the project under consideration is expansion of housing project. PP further stated that, the total plot area of the project is 38,920Sq.mt having total construction area 85100Sq.mt. (FSI - 44,915.45Sq.mt. + NON FSI- 40,185.30Sq. mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Building 1	G/St + Pod + 19rd Floors	63.40m
Building 2	G/St + Pod + 19rd Floors	63.40m
Building 3	St + Pod + 20th Floors	66.30m
Building 4	St + Pod + 20th Floors	66.30m
Building 5	St + Pod + 20th Floors	66.30m
Building 6	St + Pod +1st to 29th Floors	95.45m
Building 7	St + Pod +1st to 29th Floors	95.45 m
Club House	Gr +1 Floors	7.80 m

It is noted that, Project has received Environmental clearance vide letter dated 25th April 2014.

It is noted that the project earlier considered in 105th Meeting held on 03-07-2019 & deferred due the net plot area in previous CS & revised Cs was mentioned as 23539.00 Sq.mt while in PPT, earlier EC & approved plan the net plot area was mentioned as 18603.34 Sq.mt. Project architect was not present to explain the same & PP & environment consultant could not explain the difference in the area. Accordingly, PP submitted the compliance which was taken on record.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to ensure that, as per MCZMA Clarence vide letter dated 25/10/2013, no construction should be carried out in CRZ II area and to abide the all conditions of CRZ NoC.
2) Committee noted that, letter from TMC dated 29/8/2019 stated that, STP is completed & will be commission after 6 months. PP to ensure that, no possession shall be given before commissioning of the STP. Local body to also ensure that no occupation certificate is given to the project until STP is commissioned.
3) PP to upload the revised architect certificate incorporating building configuration.
4) PP to provide the ramp slope of 1:12 to enable the smooth way of fire tender movement.
5) PP to upload the CFO NoC.
6) PP to ensure that CER submitted should be as per Greenfield project prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertaken under CER to be carried out in consultation with Municipal Corporation or collector or Environment Department. PP to explore the possibility to develop CRZ interpretation & knowledge centre under CER in consultation with corporation & mangrove cell or CCF, Thane.

FINAL RECOMMENDATION

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

Agenda of 110th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 110 **Meeting Date** August 30, 2019

Subject: Environment Clearance for Rare Townships Private Limited

Is a Violation Case: No

1.Name of Project	Proposed Residential cum Commercial Complex project
2.Type of institution	Private
3.Name of Project Proponent	Executive Engineer (PWD)
4.Name of Consultant	M/s. AQURA LABS PVT.LTD
5.Type of project	Housing Project (Residential cum Commercial Complex project)
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	YES, Environmental Clearance has been obtained for this project on 23rd March 2006.
8.Location of the project	CTS No. 194B, PWD Ground, Ghatkopar - Mankhurd Link Road, Chedda Nagar, Ghatkopar (E), Mumbai- 400 077
9.Taluka	Kurla
10.Village	Ghatkopar
Correspondence Name:	Executive Engineer
Room Number:	CTS No. 194B
Floor:	PWD Ground
Building Name:	Rising City
Road/Street Name:	Ghatkopar- Mankhurd Link Road
Locality:	Chedda Nagar, Ghatkopar (E)
City:	Mumbai - 400 077
11.Whether in Corporation / Municipal / other area	Mumbai Corporation Of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOD
	IOD/IOA/Concession/Plan Approval Number: CHE/334/B.P.(Spl.Cell) /AN/337
	Approved Built-up Area: 80741.03
13.Note on the initiated work (If applicable)	Construction in Progress
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1,27,503.12 Sqm
16.Deductions	19,125.47 Sqm
17.Net Plot area	1,08,377.65 Sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 2,93,423.45 Sqm
	b) Non FSI area (sq. m.): 4,64,402.52 Sqm
	c) Total BUA area (sq. m.): 757826
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 80741.03
	Approved Non FSI area (sq. m.): 94252.78
	Date of Approval: 09-12-2015
19.Total ground coverage (m2)	31,033 Sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24.34
21.Estimated cost of the project	21500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No. 1 (Residential)	Wing A1 - A6 : 3Basements + Stilt + 2 Podiums + 28 Floors	95.75
2	Building No. 1 (Residential)	Wing B1 - B6 : Basements + Stilt+ Podiums + 28 Floors	77.50
3	Building No. 1 (Residential)	Wing C1 - C5 : Basements + Stilt+ Podiums + 28 Floors	69.95
4	Building No. 2 (Residential)	Wing CA - CE : Basements + Stilt+ Podiums + 2 Floors	9.00
5	Building No. 3 (Commercial)	Basements + Stilt + Podiums + 21 Floors	9.00
6	Building No. 4 (School)	Basements + Stilt + 7 Floors	21.06
7	Building No. 5 (Jain temple & Upashraya)	Basements + Stilt + 2 Floors	18.30
8	Building No. 6 (HIndu temple)	Basements + Stilt + 2 Floors	18.30
9	Building No. 1 (Residential)	Wing A1 - A6 : 3Basements + Stilt + 2 Podiums + 19 Floors	66.95
10	Building No. 1 (Residential)	Wing A1 - A6 : 3Basements + Stilt + 2 Podiums + 19 Floors	66.95

23.Number of tenants and shops	Total number of flats: Residential : 3615 nos. Sales offices & shops: 150 nos.
24.Number of expected residents / users	17600
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)	24.00 mtrs wide proposed D.P road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.0 mtrs
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	1662
	Recycled water - Flushing (CMD):	846
	Recycled water - Gardening (CMD):	375
	Swimming pool make up (Cum):	900
	Total Water Requirement (CMD) :	2742
	Fire fighting - Underground water tank(CMD):	3300
	Fire fighting - Overhead water tank(CMD):	2900`
	Excess treated water	397
Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	1662
	Recycled water - Flushing (CMD):	846
	Recycled water - Gardening (CMD):	375
	Swimming pool make up (Cum):	900
	Total Water Requirement (CMD) :	2742
	Fire fighting - Underground water tank(CMD):	3300
	Fire fighting - Overhead water tank(CMD):	2900
	Excess treated water	397
Details of Swimming pool (If any)	Proposed swimming pool in Podium level.	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	Nil	1662	1662	Nil	Nil	Nil	Nil	Nil	Nil
Domestic	Nil	2508	2508	Nil	Nil	Nil	Nil	Nil	Nil
Gardening	Nil	375	375	Nil	Nil	Nil	Nil	Nil	Nil

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1 to 2m below ground level.
	Size and no of RWH tank(s) and Quantity:	17 x 200 KL = 3400 , 1 x 400 KL = 400 , 1 x 100 KL = 100, Total = 3900 CuM/day
	Location of the RWH tank(s):	RWH tanks are proposed in basement.
	Quantity of recharge pits:	21
	Size of recharge pits :	1.5m x 2m x 0.5m
	Budgetary allocation (Capital cost) :	Rs. 80 Lacs
	Budgetary allocation (O & M cost) :	Rs. 2 Lacs
	Details of UGT tanks if any :	UG Tanks are proposed in Basement.
35.Storm water drainage	**Natural water drainage pattern:**	Storm Water drain (SWD) are laid at a slope of 1:300 the municipal outfall outside the plot.
	Quantity of storm water:	2000CuM
	Size of SWD:	200mm dia, 250mm dia, 300 mm dia, 350mm dia, 400mm dia, 450mm dia & 600mm dia.
Sewage and Waste water	**Sewage generation in KLD:**	2742
	STP technology:	Moving Bed Bioreactor (MBBR) Technology
	Capacity of STP (CMD):	8 Nos of STP & 2800 KLD cumulative capacity.
	Location & area of the STP:	Proposed at Basement level.
	Budgetary allocation (Capital cost):	Rs. 450 Lakhs
	Budgetary allocation (O & M cost):	Rs. 65 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris Generated : approx. 720000 CuM
	Disposal of the construction waste debris:	Material wastes like bricks, cement etc. will be used as fill material and concrete would be recycled and reused at the site. Municipal solid waste generated by construction shall be segregated into biodegredable and non - biodegredebale and shall be handed over to MCGM. Cement bags, waste paper, cardboard packing material would be sold off to recyclers.
Waste generation in the operation Phase:	**Dry waste:**	4 MT/Day
	Wet waste:	5 MT/Day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	125 Kg /Day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Disposed to the Municipal waste collection system and recyclable waste to be taken away by private contractor for resale.
	Wet waste:	Treatment in mechanical composting units provided at the ground level within the premises. The manure generated will be used for gardening.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried STP sludge will be used as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	On Ground level.
	Area for the storage of waste & other material:	Segregated Organic Waste
	Area for machinery:	5m x 8m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 30 Lacs
	O & M cost:	Rs. 2.5 Lacs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	250 kVA	250 kVA
41.Source of Fuel		HSD		

42.Mode of Transportation of fuel to site	By road.

43.Green Belt Development	**Total RG area :**	RG on the ground : 31900.00 Sqm , RG on the podium : 31429.00 Sqm.
	No of trees to be cut :	Nil
	Number of trees to be planted :	1595
	List of proposed native trees :	Neem, Karanj, Satwin, Kadamba, Sita Ashoka, Pangara.
	Timeline for completion of plantation :	Dec-20

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azardirachta indica	Neem	300	Large tree, good for roadside plantation
2	Pongamia pinnata	Karanj	300	Shady tree.
3	Alistonia scholaris	Satwin	300	Shady Tree, white fragrant flowers
4	Anthocephallus cadamba	Kadamba	300	Shady, large tree, ball shaped flowers.
5	Saraca ashoka	Sita Ashoka	300	Shady tree with red-yellow flowers.
6	Ficus retusa	Nandruk	95	Shady tree, good for roadside plantation.
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	Lemon grass/ Gavati Chaha	1m	1
2	Tulas	0.4m	0.6
3	Korphad	0.4m	0.5
4	Adulasa	3.5m	3
5	Chitrak	0.5m	0.4
6	Krishna kamal	1.5m	1.5
7	Kadipatta	1.5m	0.5

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy Ltd
	During Construction Phase: (Demand Load)	200KW
	DG set as Power back-up during construction phase	D.G sets shall be used as per the requirements.
	During Operation phase (Connected load):	36,299 KW
	During Operation phase (Demand load):	24020 KW
	Transformer:	1) Building A1 to A3:4 x 1000, 3 x 750, 2 x 630 kVA 2) A4 to A6: 4 x 1000, 3 x 750 kVA 3) B1 to B3: 4 X 1000, 4 X 750kVA 4) B4 to B6:
	DG set as Power back-up during operation phase:	14 Nos of 750kVA, 2Nos of 330kVA.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy saving measures: Energy conservation will be done by adopting the following methods.
a) Energy efficient fluorescent tube lights & LED lamps will be used.
b) Presence sensors & day - light sensors will be provided where evr feasible.
c) Solar operated pole lights will be proposed to power pathway lights at some strategic locations.
d) Use of energy saving devices (CFL light and Patti light) .
e) Drip irrigation shall be used for gardening purpose to reduce the wastage of water .
f) Use of high energy efficient pumps for fire fighting, UG tanks and STP.
g) General lighting shall be through energy efficient flurosecent lamps and illumination levels shall be generally in line with National Building Code.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	a) Replacing 60w incandescent lamps with 18W LED lamps with circuit controls. b) Air conditioning load - High COP chillers, Demand control ventilation, Variable pumping , Speed control in AHUs. c) Regeneration braking of elevators d) High efficiency motors for PHE systems. e) Solar powered water heating f) Solar photovoltaic power generation for external lighting	7.858 Mil Units / Energy savings - 22.51%

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. 60 Lakhs
	O & M cost:	Rs. 6 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	1	Water For Dust Suppression	10
2	2	Site Sanitation	10
3	3	Environment Monitoring	15
4	4	Disinfection	5
5	5	Health Check Up	20
6	6	Total Cost	60

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	MBBR technology (303MLD capacity)	450	36
2	Rain Water Harvesting	19 underground tanks for capturing terrace water	80	2
3	Environmental Monitoring	Environmental Monitoring	NABL/MOEF approved Laboratory for monitoring	16
4	Solar Lights	300 poles	60	6
5	Gardening	Gardening	50	10
6	Solid Wate Management	Treatment of biodegradable garbage in OWC(4.64 tonnes per Day)	30	2.5
7	Cost for Safety and fire fighting	17 buildings	3400	85

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Access to the plot is from 24.0 m wide D.P road.

Parking details:	**Number and area of basement:**	Building No. 1 (Residential): 2,34,449.50 Sqm of 3 Basements , Building No. 2 & 3 (Residential & Commercial): 18,645.00 Sqm of 1 Basement
	Number and area of podia:	Building no. 1 (Residential): 44,727.40 & 1 Basement , Building No. 2 (Residentail): 8,445.35 Sqm & 1 Basement
	Total Parking area:	23,449.55 Sqm in Basement of Building No.1, 18,645.00 Sqm in Basement of Building No. 2&3, 44,727.40 Sqm in podium of Building No. 1, 8,445.35 Sqm in Podium of Building No. 2.
	Area per car:	13.75
	Area per car:	13.75
	Number of 2-Wheelers as approved by competent authority:	2-Wheelers are not proposed
	Number of 4-Wheelers as approved by competent authority:	2423
	Public Transport:	Yes
	Width of all Internal roads (m):	All internal roads are 6m wide.
	CRZ/ RRZ clearance obtain, if any:	The subject plot u/r is not falling in CRZ area as per HTL demarcation plan prepared by MoEF authorized agency i.e. IRS Chennai.
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	NA
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP was present during the meeting along with environmental consultant M/s. M/s. AQURA LABS PVT.LTD.

PP informed that, the project under consideration is expansion in existing housing project of PWD. PP further stated that, the total plot area of the project is 1,27,503.12 Sq.mt having total construction area 757826Sq. mt. (FSI - 2,93,423.45 Sq.mt. + NON FSI- 4,64,402.52 Sq. mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Building No. 1 (Residential)	Wing A1 - A6 : 3Basements + Stilt + 2 Podiums + 28 Floors	95.75
Building No. 2 (Residential)	Wing A7 – A9 : 1Basement + Stilt + 2 Podiums + 28 Floors	95.75
Building No. 3 (Residential)	Wing B1 - B6 : 1 Basement + Stilt+2 Podiums + 28 Floors	95.75
Building No. 4 (Residential)	Wing C1 - C5 : 1Basement + Stilt+ 2Podiums + 28 Floors	95.75
Building No. 5 (Residential)	Wing D1-D3: 1Basements + Stilt+ 2Podiums + 28 Floors	95.75
Building No. 6 (Commercial)	1 Basement + Stilt + 2 Podiums + 21 Floors	77.50

It is noted that, Project has received Environmental clearance vide letter dated 23rd March 2006.

It is noted that the project earlier considered in 107th Meeting held on 29-07-2019 & deferred with observations namely 1) to upload the copy of work order issued by PWD which was submitted during the presentation. 2) to upload the copy of acknowledgement for plan submitted to local planning authority. 3) to clarify the proposed building configuration with height 77.50 meters and 69.95 meters complying with NBC norms for floor height. 4) to upload the revised architect certificate submitted during the meeting. Accordingly, PP submitted the compliance which was taken on record.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit & upload the copy of plan submitted during the earlier EC.
2) PP to submit & upload the copy of acknowledgement for plan submitted to local planning authority.
3) CCommittee noted that, in online CS & revised CS, the name of the PP (Applicant) is mentioned as Executive Engineer, PWD while during presentation representative of M/s Rare Townships Private Limited was present. Since that plot belongs to Government & under the management of PWD, Concern engineer of PWD not below the rank of EE should present along with M/s Rare Townships Private Limited.
4) Committee noted that, the project under consideration is the PPP project & public works department, Government of Maharashtra asked developer to obtain the all necessary approval regarding the project, PP to upload the copy of work order issued by PWD which was submitted during the presentation.
5) During presentation, committee noted that the plot area mentioned in CS is not subdivided of bigger plot which contain CRZ II of area 18,061 Sq.mt as mentioned PWD's Government Resolution dated 4/11/2008 & FSI of this area is also allowed to be used by developer on lease bases & thereby, since the CRZ II area is part of the plot area & also there is mangrove in some part of the plot under development, the PP to obtain the NoC/ remark from the MCZMA authority in this regards.
6) PP to show the all clear drive way for fire tender movement along with Swept path analysis.
7) PP to submit the CFO NoC.
8) PP to submit the detail RG calculation.

FINAL RECOMMENDATION

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

Agenda of 110th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 110 **Meeting Date** August 30, 2019

Subject: Environment Clearance for Environment Clearance for proposed Residential and Commercial project at Village Sarang & Vehale, Taluka Bhiwandi, District Thane by Xrbia Warai Developers Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Proposed Residential and Commercial project at Village Sarang & Vehale, Taluka Bhiwandi, District Thane by Xrbia Warai Developers Pvt. Ltd. & 4 others (Sujitkumar Jitpratap Singh, Homeway Landmark LLP, Ashish Vijay Bhansali, Vijay Motilal Bhansali)
2.Type of institution	Private
3.Name of Project Proponent	Xrbia Warai Developers Pvt. Ltd. & 4 Others (Sujitkumar Jitpratap Singh, Homeway Landmark LLP, Ashish Vijay Bhansali, Vijay Motilal Bhansali)
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., F-7, Road No. 21, Wagle Estate, Thane (West)-400604
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Land bearing Gat no. 12/1, 12/3/a, 12/3/b, 13/4, 13/13, 14/3, 13/3,13/12, 14/5 of Village Vehale and 52, 53/1, 53/8, 53/5, 53/6, 54/1, 49/5, 49/12, 49/6, 53/4, 53/2, 49/10, 53/3, 53/7, 53/9 of Village Sarang, Taluka Bhiwandi, District Thane.
9.Taluka	Bhiwandi
10.Village	Sarang & Vehale
Correspondence Name:	Mr. Veer Bharati Kouls (Authorized Person for Correspondence)
Room Number:	929
Floor:	1st Floor
Building Name:	Mantri House
Road/Street Name:	FC Road
Locality:	Pune
City:	Pune
11.Whether in Corporation / Municipal / other area	Mumbai Metropolitan Region Development Authority (MMRDA)
12.IOD/IOA/Concession/Plan Approval Number	Received IOD vide no. SROT/BSNA/2501/BP/Sarang-Vehale-01/2546/2018 dated 27.12.2018
	IOD/IOA/Concession/Plan Approval Number: Received IOD vide no. SROT/BSNA/2501/BP/Sarang-Vehale-01/2546/2018 dated 27.12.2018
	Approved Built-up Area: 128472
13.Note on the initiated work (If applicable)	No work has been initiated as it is a new project
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	55,800 m2
16.Deductions	Total deductions 3,290 m2 (Road widening (45 m) : 2,443 m2 , Proposed railway line-847 m2)
17.Net Plot area	52,420 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 73,875 m2
	b) Non FSI area (sq. m.): 54,597 m2
	c) Total BUA area (sq. m.): 128472
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 73,875 m2
	Approved Non FSI area (sq. m.): 54,597 m2
	Date of Approval: 27-12-2018
19.Total ground coverage (m2)	9,683.06 m2

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.47 % of total net plot area
21.Estimated cost of the project	2070000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A1	P + 22 floors	66.70
2	Building B1	P + 17 floors	52.45
3	Building B2	P + 17 floors	52.45
4	Building B3	P + 17 floors	52.45
5	Building C1	P + 21 floors	63.85
6	Building D1	G + 1 floor + 20 parking floors	66.30

23.Number of tenants and shops	1. Total number of tenements - 3,157 nos. 2. Total number of shops - 50 nos.
24.Number of expected residents / users	Total population - 12,295 nos. (Residential population - 12,145 nos., Commercial population – 150 nos.)
25.Tenant density per hectare	602 tenants/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	45 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Internal road - 12 m & Turning radius - 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**	S.T.E.M, Thane
	Fresh water (CMD):	1,097
	Recycled water - Flushing (CMD):	549
	Recycled water - Gardening (CMD):	103
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1,646
	Fire fighting - Underground water tank(CMD):	As per Fire NOC
	Fire fighting - Overhead water tank(CMD):	As per Fire NOC
	Excess treated water	575
Wet season:	**Source of water**	S.T.E.M, Thane
	Fresh water (CMD):	1,097
	Recycled water - Flushing (CMD):	549
	Recycled water - Gardening (CMD):	51
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1,646
	Fire fighting - Underground water tank(CMD):	As per Fire NOC
	Fire fighting - Overhead water tank(CMD):	As per Fire NOC
	Excess treated water	626
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:**	Summer season -18.40 m to 24.00 m below ground level (21.20 m below ground level average), Rainy season - 8.80 m to 13.00 m below ground level (10.90 m below ground level average), Winter season - 13.60 m to 18.50 m below ground level (16.05 m below ground level average)
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	11 nos. of recharge pits
	Size of recharge pits :	2 m x 2 m x 2 m
	Budgetary allocation (Capital cost) :	Rs.20 Lakh
	Budgetary allocation (O & M cost) :	Rs.4 Lakh/Year
	Details of UGT tanks if any :	1. Domestic UG tank capacity - 1,097 m3 2. Flushing UG tank capacity - 550 m3 3. Fire UGT tank capacity - As per Fire NOC
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	32.27 m3/min
	Size of SWD:	Pipe and chamber network diameter 150, 200, 250, 300, 450 mm
Sewage and Waste water	**Sewage generation in KLD:**	1,400 m3/day
	STP technology:	Moving Bed Biofilm reactor (MBBR)
	Capacity of STP (CMD):	1 no. of STP having capacity 1,469 m3/day
	Location & area of the STP:	Location - On ground (South side of the project), Area of STP - 700 m2
	Budgetary allocation (Capital cost):	Rs.115 Lakh
	Budgetary allocation (O & M cost):	Rs.32 lakh /Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	The total excavation quantity is 16,580 m3
	Disposal of the construction waste debris:	The debris will be stored in amenty space & will be used for landscaping purpose.
Waste generation in the operation Phase:	**Dry waste:**	1,433 kg/day
	Wet waste:	2,204 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	99 kg/day
	Others if any:	E-waste - 37 kg/day

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed of to recyclers.
	Wet waste:	Wet garbage will be treated by using Organic waste converter machine
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Dry sludge can be used as manure for plantation & gardening purposes inside the premise.
	Others if any:	E-waste authorized hazardous waste management agencies..
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	200 m2
	Area for machinery:	55 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.30 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 :**	13,342.20 m2
	No of trees to be cut :	19 nos. of trees will be cut/transplanted
	Number of trees to be planted :	698 nos.
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	6 to 9 months after completion of Civil Works.

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	Albizzia Lebbek	Shirish	22	Shady tree with yellowish green fragrant flowers
2	Artocarpus heterophyllus	Fanas	46	Shady tree, arrests soil erosion
3	Azadirachta indica	Neem/ Kadunimb	38	Hardy, drought resistant Medicinal Tree
4	Bauhinia purpurea	Apata /Kanchan	28	Butterfly-host tree
5	Cassia fistula	Bhava	24	Drought-resistant, Shady Tree
6	Dalbergia Sisoo	Sisoo/ Shisham	27	Drought-resistant, Shady Tree
7	Lagerstroemia Flosreginae	Tamhan	33	Hardy, Shady, Ornamental Tree
8	Mangifera Indica	Mango/ Amba	93	Fruits attract birds and butterflies
9	Michelia Champaka	Piwala Chapha	15	Butterfly Host Plant
10	Mutingia Calabaura	Cherry	94	Fruits attract Birds and Butterflies
11	Pterospermum Acerifolium	Muchkund	37	Quick growing tree
12	Pongamia Pinnata	Karanj	20	Shade-giving tree
13	Saraca Indica	Sita Ashok	60	Shade-giving tree
14	Syzgium Cumini	Jamun/ Jambhul	99	Shady Tree, fruits attract birds and butterflies
15	Tamarindus Indica	Imli/ chinch	62	Shady tree, fruits attract birds and butterflies
16	Total No of Trees	-	698	-
17	Existing Trees	-	10 nos. (to retained) + 19 nos. (to be cut/transplanted) = 29 nos.	-
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 Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	1 no. x 125 kVA
	During Operation phase (Connected load):	4,540 kW
	During Operation phase (Demand load):	3,766 kW
	Transformer:	6 nos. x 630 kVA
	DG set as Power back-up during operation phase:	1 no. x 400 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

? LED lights, VFD and APFC Panel in Lifts, Water pumps for non-conventional
? Solar hot water systems for residential building.
? Solar panel lights will be installed for common facilities wherever possible.
? Solar street lights are proposed for common area such as open spaces, pathways, RG etc. for the conventional method.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving from LED Lights	1.78%
2	Energy Saving from VFD & APFC in Lifts	0.21%
3	Energy Saving from VFD in Pumps	0.70%
4	Energy Saving from Solar Water Heaters	13.44%
5	Energy Saving from Solar PV	0.52%
6	Overall energy saving for the project	17%

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.127 Lakh
	O & M cost:	Rs.15 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Air water Environment	During the construction phase, water will be required for sprinkling for suppression of dust and for construction purpose.	2
2	Site sanitation & Health Safety	Toilet facility provided to the labours. Six monthly health checkup and doctor visit as per requirement, First aid facilities	5
3	Environment Monitoring	Ambient air, drinking water, noise and soil testing on monthly basis.	2
4	Disinfection	Cleaning and maintaining the site.	3
5	Health Check up	Masks, Ear plugs, safety shoes, safety googles, safety harness, Safety belt, helmets, safety net, hand gloves etc.	3
6	Total	-	15

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment plant	1 no. of STP having capacity of 1,469 m3/day	115.00	32.00
2	Solid Waste management	1 no. of OWC unit	30.00	3.00
3	Landscape & Irrigation Development	698 nos. of trees to be planted. Developed and maintained landscape area is 13,348.20 m2	55.00	6.00
4	Environment Monitoring	Air, Water, Noise, Soil, surface water, STP treated water etc.	MoEF approved laboratory	5.00
5	Energy conservation	Solar street lighting	127.00	15.00
6	Rain water harvesting	11 nos. of recharge pits of Size of recharge pits: 2 m x 2 m x 2 m	20.00	4.00
7	Laying of storm & Sever line up to final disposal point	Storm water channel will connect up to nalla line	135.00	5.00
8	Total	-	482.00	70.00

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:	1 no of junction
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	1 no. of podium having area 6,276.72 m2
	Total Parking area:	44,303.98 m2
	Area per car:	Open parking 25 m2/car; covered parking 37.65 m2/car
	Area per car:	Open parking 25 m2/car; covered parking 37.65 m2/car
	Number of 2-Wheelers as approved by competent authority:	3,203 nos.
	Number of 4-Wheelers as approved by competent authority:	812 nos.
	Public Transport:	Not applicable
	Width of all Internal roads (m):	12 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 (a) B2 category
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

PP informed that, the project under consideration is new housing project. PP further stated that, the total plot area of the project is 55,800 Sq.mt. having total construction area 128472 Sq.mt. (FSI - 73,875 Sq.mt. + NON FSI- 54,597 Sq.mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Building A1	P + 22 floors	66.70
Building B1	P + 17 floors	52.45
Building B2	P + 17 floors	52.45
Building B3	P + 17 floors	52.45
Building C1	P + 21 floors	63.85
Building D1	G + 1 floor + 20 parking floors	66.30

It is noted that the project earlier considered in 104th (Day-2) Meeting Meeting held on 27-06-2019 & deferred with observations namely. 1) to explore the possibility to laid down sewer line & storm water line upto MMRDA's existing sewer & storm water network and accordingly submit the detail timeline & plan for the same. 2) to submit the letter from competent authority regarding availability of water & water supply to the project. Accordingly, PP submitted the compliance which was taken on record.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) It is noted that representative of PP not submitted the authority letter. PP to submit the same along with copy of company resolution, resolution regarding authorized signatory & letter from other JV authorities regarding the authority given to Mr Kouls to present the proposal.
2) Committee noted that, PP have not submitted the proper reply for the point no 1 i.e "to explore the possibility to laid down sewer line & storm water line upto MMRDA's existing sewer & storm water network and accordingly submit the detail timeline & plan for the same" PP to submit the time line & detail plan regarding sewer disposal.

FINAL RECOMMENDATION

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

Agenda of 110th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 110 **Meeting Date** August 30, 2019

Subject: Environment Clearance for Environment Clearance for proposed expansion of proposed residential Building No. 7, 9 & 10 and Existing Building No. 1, 2, 3, 4, 5, 6 & 8 which are approved, and OC granted on plot Bearing CTS. No. 514, 531(pt), 531/1 to 14, 532A (pt) and 534 of Village Nahur, at L.B.S Road, 'T' ward, Mulund (W), Mumbai, in 'T' ward (E.S)

Is a Violation Case: No

1.Name of Project	Proposed expansion of proposed residential Building No. 7, 9 & 10 and Existing Building No. 1, 2, 3, 4, 5, 6 & 8 which are approved, and OC granted on plot Bearing CTS. No. 514, 531(pt), 531/1 to 14, 532A (pt) and 534 of Village Nahur, at L.B.S Road, 'T' ward, Mulund (W), Mumbai, in 'T' ward (E.S)
2.Type of institution	Private
3.Name of Project Proponent	M/s. Lohitka Properties LLP
4.Name of Consultant	AQURA Enviro Projects Pvt. Ltd.
5.Type of project	Township Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environment Clearance Obtained from Municipal Corporation of Greater Mumbai (MCGM) Environment Cell vide letter no. Dy. Ch. E/9113/BPES/Dated: 08/12/2017.
8.Location of the project	C.T.S. NO. 514, 531(PT), 531/1 TO 14, 532A (PT) & 534 of Village Nahur, at L.B.S Road, Mulund (W), Mumbai in 'T' ward (E.S).
9.Taluka	Kurla
10.Village	Nahur
Correspondence Name:	Nayan Parulekar
Room Number:	--
Floor:	Ground Floor & 3rd Floor
Building Name:	Prius Infinity
Road/Street Name:	Subhash Road
Locality:	Vile Parle (East)
City:	Mumbai 400057
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Received IOD for Bldg 7 A, B & C , C.C for Building No. 7 A & B wing – Stilt + 5 Podiums + 31st Floor, C.C for Building No. 7 C wing – Stilt + 5 Podiums + 1st Floor, Concession approval for 7 A,B,C and 10 A,B,C
	IOD/IOA/Concession/Plan Approval Number: CHE/ES/2119/T/337(NEW) Bldg no 7,wing A,B,C IOD -01/09/2016 C.C -11/03/2019 Bldg no 7A,B,C Amended plan date – 20/06/2018 & 11/03/2019 CHE/ES/2036/T/337(NEW) Bldg No.10 wing C: IOD -15/10/2016, CC -15/10/2016 , Concession approval for Bldg 7A,B,C and 10A,B,C –21.05.2018
	Approved Built-up Area: 164759.67
13.Note on the initiated work (If applicable)	Construction done on site as per earlier EC obtained; Construction area on site: 39,112.41 Sq. M. Building Configuration: Bldg 7A, B:Stilt + 5P+24 Floors Bldg 7C:Stilt + 3 Podium Parking Podium for Bldg 7 -A, B & C (outside the building line): Stilt+ 4 Podium
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	59276.00 Sq. M.
16.Deductions	2216.94 Sq. m (Set Back Area: 421 Sq. m + Encroachment Area: 1795.94 Sq. m)
17.Net Plot area	57059.06 Sq. M.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Total FSI Area = 164759.67Sq. m, FSI Area (for proposed buildings no. 7, 9 & 10) = 116093.35 Sq. M.
	b) Non FSI area (sq. m.): Total Non FSI Area = 136108.05 Sq. m, Non-FSI Area (for proposed buildings no. 7, 9 & 10) = 131546.73 Sq. M.
	c) Total BUA area (sq. m.): 300867.72

18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Total FSI Area = 164759.67Sq. M. FSI Area (for proposed buildings no. 7, 9 & 10) = 116093.35 Sq. M. FSI Area of Existing Buildings = 48666.32 Sq. M.
	Approved Non FSI area (sq. m.): Total Non FSI Area = 136108.05 Sq. m, Non FSI Area (for proposed buildings no. 7, 9 & 10) = 131546.73 Sq. M. Non FSI Area of Existing Buildings = 4561.32 Sq. M
	Date of Approval: 21-05-2018
19.Total ground coverage (m2)	21470.61 Sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	36.22%
21.Estimated cost of the project	6360000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Proposed Building - Building No. 7: - Wing A, B & C	Stilt + 1st to 5th Podium + 6th Podium/E Deck Floor + 1st to 43rd upper floor	Wing A & B - 162.85 – mt. Wing C – 171.45 mt.
2	Proposed Building - Building No. 10: - Wing A, B & C	Stilt + 1st to 5th Podium + 6th Podium/E Deck Floor + 1st to 43rd upper floor	Wing A & B – 162.85 mt. Wing C - 171.45 mt.
3	Building No. 9 (Handed over to MCGM)	Ground + 1st to 4 floors (Amenity Building – Parking Building)	14.80 m
4	Existing Building- Building No. 1 (Commercial)	Ground + 2 Floors	13.33 m
5	Existing Building- Building No. 2	Ground + 8 Floors	26.16 m
6	Existing Building- Building No. 3	Ground + 8 Floors	26.16 m
7	Existing Building- Building No. 4	Ground + 8 Floors	26.16 m
8	Existing Building- Building No. 5	Ground + 8 Floors	26.16 m
9	Existing Building- Building No. 6	Ground + 8 Floors	26.16 m
10	Existing Building- Building No. 8	Ground + 8 Floors	26.16 m
11	Building No. 10: - Wing A, B& C	Stilt + 1st to 5th Podium + E Deck Floor + 1st to 43rd upper floors	Wing A & B – 162.85 mt. Wing C - 171.45 mt.

23.Number of tenants and shops	Proposed Buildings: Building No. 7 wing A, B & C = 498 Flats Building No. 10 wing A, B & C = 498 Flats Total: 996 Flats Existing Buildings: Flats = 672 Shops = 21 Office = 82 Total = 775 Total Flats on Entire Plot = 996 + 672 = 1668 Shops = 21 Office = 82
24.Number of expected residents / users	Building No. 7: Wing A, B & C = 2490 Building No. 10: Wing A, B & C= 2490 Residents: 4980 Nos. Building Staff: 43 Drivers: 996 Maids: 996 Visitors: 250 Total Populations: 7265 Nos.
25.Tenant density per hectare	310
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 m – Marathon Ave Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 – 12.00 m turning radius
29.Existing structure (s) if any	No
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	480
	Recycled water - Flushing (CMD):	257
	Recycled water - Gardening (CMD):	132
	Swimming pool make up (Cum):	842
	Total Water Requirement (CMD) :	738
	Fire fighting - Underground water tank(CMD):	600
	Fire fighting - Overhead water tank(CMD):	200
	Excess treated water	189

Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	480
	Recycled water - Flushing (CMD):	257
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	842
	Total Water Requirement (CMD) :	738
	Fire fighting - Underground water tank(CMD):	600
	Fire fighting - Overhead water tank(CMD):	200
	Excess treated water	321
Details of Swimming pool (If any)	Details of Swimming pool (If any): Main Pool Volume = 618.25 sq.mt x 1.2 m -741.90 Cum Capacity = 741.90 Cum Water Requirement = 740 Cum Make up Water Requirement = 74 Cum Kids Pool Volume = 113.88 sq.mt x 0.9 m -102.49Cum Capacity = 102.49 Cum Water Requirement = 102 Cum Make up Water Requirement = 10 Cum Filtration Plant Location: 5th Podium	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.5 meters below ground
	Size and no of RWH tank(s) and Quantity:	Size: Area: 58.83 Sq. m. Depth: 2.850 m., 2 RWH tank of 85 CMD each (Raw & treated Rain water tank)
	Location of the RWH tank(s):	Below Ground
	Quantity of recharge pits:	No
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	11.9 Lacs
	Budgetary allocation (O & M cost) :	1.2 Lacs/Year
	Details of UGT tanks if any :	Fire Fighting Tank: 600 CMD Domestic Water Tank: 480 CMD Flushing Water Tank:257 CMD Rain Water Harvesting Tank: 170 CMD
35.Storm water drainage	**Natural water drainage pattern:**	SWD by Gravity & connected to south side
	Quantity of storm water:	0.208 m3/Sec
	Size of SWD:	Ranging from 450 – 600 mm wide storm water drain Channel, Slope 1:300
Sewage and Waste water	**Sewage generation in KLD:**	642 KLD
	STP technology:	Moving Bed Bio-Reactor (MBBR) Technology
	Capacity of STP (CMD):	2 STPs of 325 KLD each; Total capacity: 650 KLD
	Location & area of the STP:	Below Ground, Area: 553 Sq. M.
	Budgetary allocation (Capital cost):	97.35 Lacs
	Budgetary allocation (O & M cost):	9.8. Lacs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris & construction waste shall be generated. Recyclable waste will be generated like empty cement bags & cans, scrap metal etc.
	Disposal of the construction waste debris:	Recyclable waste like empty cement bags & empty paint cans shall be handed over to local vendors. Broken tiles shall be used for china mosaic of terrace. Scrap metals shall be sold to recyclers. Disposal of construction waste will be as per “Construction and Demolition waste management Rules 2016.
Waste generation in the operation Phase:	**Dry waste:**	1347 Kg/Day
	Wet waste:	898 Kg/Day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	6.5 Kg/Day
	Others if any:	None

Mode of Disposal of waste:	**Dry waste:**	Dry waste would be further segregated into recyclable and non-recyclable & it will be handed over to authorize vendors.
	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 sold to authorize vendors.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge would be used as manure for gardening purpose and excess would be sold to authorize vendors
	Others if any:	None
Area requirement:	**Location(s):**	Ground Level
	Area for the storage of waste & other material:	3 no. of OWC - 43 Sq. m each
	Area for machinery:	10 Sq. M. at each location
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	36 Lakhs
	O & M cost:	15 Lakhs/Year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	RG area for Proposed Buildings 7, 9 & 10 :- Ground RG Area: 5254.28 Sq. m, Paved RG area on ground: 1680.10 Sq. m, Podium RG Area: 6852.51 Sq. m, Podium Paved RG: 1265.98 Sq. m, Open Spaces Other than RG: 5619.60 Sq. m, RG area of existing buildings 1, 2, 3, 4, 5, 6 & 8 = 9448.56 Sq. M.
	No of trees to be cut :	5 Nos.
	Number of trees to be planted :	419 tree on Ground + 342 shrubs on podium = 761; Trees on Existing development (Bldg. no. 1, 2, 3, 4, 5, 6 & 8): 459
	List of proposed native trees :	Shirish, Neem, Maharukh, Satwin, Karanj, Sita Ashok, Kadamb, Bahava, Bakul, Parijatak, Tamhan, Kunti, Apta, Pangara, Palas, Son chafa, Putranjiva, Fish Tail Palm.
	Timeline for completion of plantation :	After completion of construction work

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizialebbeck	Shirish	20	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	15	Large tree, good for roadside plantation
3	Ailanthus excelsa	Maharukh	20	Large tree, good for roadside plantation
4	Alstonia scholaris	Satwin	20	Shady Tree, white fragrant flowers
5	Pongamia pinnata	Karanj	14	Shady tree
6	Saraca asoka	Sita Ashok	20	Shady tree with red-yellow flowers.
7	Anthocephallus cadamba	Kadamb	24	Shady, large tree, ball shaped flowers.
8	Cassia fistula	Bahava	26	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
9	Mimusopselengi	Bakul	20	Shady tree, small white fragrant flowers
10	Nyctanthesarbor-tristis	Parijatak	14	Small deciduous fast growing tree, beautiful flowrers.
11	Lagerstroemia flos-regineae	Tamhan	20	State flower tree of Maharashtra, Medium sized tree, beautiful purple flowers
12	Murrayapaniculata	Kunti	20	Small tree, Fragrant white flowers,Butterfly host plant
13	Bauhinia racemosa	Apta	20	Small tree with small white flowers, Butterfly host plant
14	Erythrina indica	Pangara	20	Medium sized deciduous tree. Bright scarlet flowers
15	Butea monosperma	Palas	20	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant

16	Michelia champaca	Son chafa	20	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
17	Putranjivaroxburghii	Putranjiva	20	Medium sized evergreen tree
18	Caryotaurens	Fish Tail Palm	20	Ornamental tree
19	Alstoniascholaris	Satwin	20	Shady, large evergreen Tree, white fragrant flowers
20	Murrayakoengii	Curry leaf	20	Butterfly host plant
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	VitexNegundi (Nirgudi)	2.00 m	--
2	AdhatodaVasica (Adulasa)	1.75 m	--
3	PlumbagoZeylanica (White Plumbago)	1.50 m	--
4	ZiziphusMauritiana (Ber)	2.25 m	--
5	Stachytarpheta sp	2.25 m	--
6	Cassia Tora (Takala)	2.00 m	--
7	Cassia auriculata (Tarwad)	1.75 m	--
8	Passiflora edulis (Krushnakamal)	2.25 m	--
9	Korphad	1.50 m	--
10	Tulas	2.00 m	--
11	Adulasa	2.25 m	--
12	Chitrak	2.00 m	--
13	Kadipatta	2.25 m	--
14	Wala	1.75 m	--
15	Wekhand	2.00 m	--
16	Gokarna	1.50 m	--
17	Piwala Kanchan	2.25 m	--
18	Kunti	2.25 m	--
19	Bahava	1.75 m	--
20	Kadipatta	1.75 m	--

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	None
	During Operation phase (Connected load):	9417.34 KW
	During Operation phase (Demand load):	3496.53 KW
	Transformer:	3 x 1000 kVA
	DG set as Power back-up during operation phase:	2 Nos. of 600 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Yes

48.Energy saving by non-conventional method:

Savings due to solar lighting: Providing 25% of street lighting/landscape lighting on solar
Solar lighting for common areas

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Average Annual Energy Savings	24.74 %
2	Energy saved by renewable source of energy in % compare to total energy saved	3.22 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	28 Lakhs
	O & M cost:	4 Lakhs/Year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for dust suppression, Tyre cleaning and Vehicle maintenance, Traffic Management (Sign Boards, Persons at entry exit and Parking area),	1.00

2	Socio-economic Environment	Site sanitation	1.0
3	Health & Safety	Disinfection at Site	0.5
4	Health & Safety	Health check-up of workers	1.00
5	Health & Safety	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves etc.), Safety Training to Workers (Twice in Year), Safety Officer, Safety Nets	5.00
6	Environment management	Environmental Monitoring	5.00
7	Drinking water	Potable Water Supply	2.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP network	2 STPsof 325 KLD each; Total capacity: 650 KLD	97.35	9.8
2	RWH System	2 RWH tank of 85 CMD each (Raw & treated Rain water tank) (2 days storage capacity)	11.9	1.2
3	Solid Waste Management	Treating 898 Kg/Day Wet waste in Organic Waste Converter & Curing System	36	15
4	Solar Panel Installation	Solar Street Lights, Landscaping Lights, ? Solar water Heater (one toilet for top 12 floor of each tower)	28	4
5	Landscaping	Tree & Shrubs Plantation on site	30	3

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	None
Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	6 Podiums, 68968.51 Sq. m.
	Total Parking area:	For Proposed Project (For building No. 7 & 10): 82897.47 Sq. m. (Stilt + Podiums), For Existing Buildings (For Building no. 1, 2, 3, 4, 5, 6 & 8): 14665 Sq. m (As per NBC)
	Area per car:	35.25 Sq. m.
	Area per car:	35.25 Sq. m.
	Number of 2-Wheelers as approved by competent authority:	428
	Number of 4-Wheelers as approved by competent authority:	Proposed Four Wheelers (For building No. 7 & 10): 2351 + Existing four wheelers (For Building no. 1, 2, 3, 4, 5, 6 & 8): 419 = Total Four Wheelers: 2770
	Public Transport:	None
	Width of all Internal roads (m):	Above 6.00 m
	CRZ/ RRZ clearance obtain, if any:	No
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park – Approx. 540 m
	Category as per schedule of EIA Notification sheet	Category 'B'
	Court cases pending if any	No
	Other Relevant Informations	None
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
23. Number of tenants and shops	Building No. 7(Wing A, B & C): 498 Building No. 10 (Wing A & B): 498 , Total: 996 Flats	Building No. 7(Wing A, B & C): 498 Building No. 10 (Wing A, B & C): 498 Total: 996 Flats

24. Number of expected residents/Users	Building No. 7 (Wing A, B & C) = 2490 Building No. 10 (Wing A & B) = 2490 Residents: 4980 Nos. Building Staff: 43 Drivers: 996 Maids: 996 Visitors: 250 Total Populations: 7265 Nos.	Building No. 7 (Wing A, B & C) = 2490 Building No. 10 (Wing A, B & C) = 2490 Residents: 4980 Nos. Building Staff: 43 Drivers: 996 Maids: 996 Visitors: 250 Total Populations: 7265 Nos.
54. Number of 2 Wheelers	184	428
54. Number of 4 Wheelers	2090	2351
Distance from Protected areas/critically polluted areas/ Eco-sensitive areas/ interstate boundaries	Sanjay Gandhi National Park - Approx. 540 Km	Sanjay Gandhi National Park - Approx. 540 m
17. Net Plot Area	57213.36 Sq. m	57059.06 Sq. m

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

PP informed that, the project under consideration is *expansion in township project. PP further stated that,* the total plot area of the project is 59276.00 Sq.mt having total construction area 300867.72 Sq.mt (FSI - 116093.35 sq.mt +NON FSI- 131546.73 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Proposed Building - Building No. 7: - Wing A, B & C	Stilt + 1st to 5th Podium + 6th Podium/E Deck Floor + 1st to 43rd upper floor	Wing A & B - 162.85 – mt. Wing C – 171.45 mt.
Proposed Building - Building No. 10: - Wing A, B & C	Stilt + 1st to 5th Podium + 6th Podium/E Deck Floor + 1st to 43rd upper floor	Wing A & B – 162.85 mt. Wing C - 171.45 mt.
Building No. 9 (Handed over to MCGM)	Ground + 1st to 4 floors (Amenity Building – Parking Building)	14.80 m
Existing Building- Building No. 1 (Commercial)	Ground + 2 Floors	13.33 m
Existing Building- Building No. 2	Ground + 8 Floors	26.16 m
Existing Building- Building No. 3	Ground + 8 Floors	26.16 m
Existing Building- Building No. 4	Ground + 8 Floors	26.16 m
Existing Building- Building No. 5	Ground + 8 Floors	26.16 m
Existing Building- Building No. 6	Ground + 8 Floors	26.16 m
Existing Building- Building No. 8	Ground + 8 Floors	26.16 m
Building No. 10: - Wing A, B& C	Stilt + 1st to 5th Podium + E Deck Floor + 1st to 43rd upper floors Wing A & B – 162.85 mt. Wing C -	171.45 mt.

It is noted that, Project has received Environmental clearance vide letter dated 08/12/2017.

It is noted that the project earlier considered in 104th (Day-2) Meeting held on 27-06-2019 & revised ToR accorded for the same. Accordingly, PP submitted the EIA & compliance which was taken on record.

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit dated Architect certificate addressing to committee regarding detail building wise construction done (Configuration, FSI, NoN-FSI, TBUA) on site prior to EIA notification 2006, as per EC received from local planning authority.
2) PP to provide the electric charging points (1 point for 5 cars) in parking area.
3) PP to ensure ECBC norms are complied.
4) PP to explore the possibility to provide the fire tender movement on podium or to provide proper fire fighting equipment like fire hydrants etc on podium.
5) PP to submit the architect certificate for construction done on site.
6) PP to submit the revise RG calculations
7) PP to ensure that, BoD should be less than 10
8) As proposed, PP to ensure that STP should be on ground open to sky.

FINAL RECOMMENDATION

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