Agenda of 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Proposed Redevelopment of Police Staff Quarters on Plot Bearing C.T.S. No. 258/A, Aarey Village (SRPF) at Goregaon (East), Mumbai.

Is a Violation Case: No

1.Name of Project	Proposed Redevelopment of Police Staff Quarters on Plot Bearing C.T.S. No. 258/A, Aarey Village (SRPF) at Goregaon (East), Mumbai.
2.Type of institution	Government
3.Name of Project Proponent	Maharashtra State Police Housing & Welfare Corporation Limited. Mumbai
4.Name of Consultant	Fine Envirotech Engineers
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Redevelopment
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	C.T.S. No. 258/A, Aarey Village (SRPF) at Goregaon (East), Mumbai.
9.Taluka	Goregaon
10.Village	Aarey village
Correspondence Name:	Maharashtra State Police Housing & Welfare Corporation Limited. Mumbai
Room Number:	NA
Floor:	NA
Building Name:	Maharashtra State Police Housing & Welfare Corporation Limited.
Road/Street Name:	Sir Pochkhanwala Road
Locality:	Near Police Officers, Mess Worli.
City:	Mumbai
11.Whether in Corporation / Municipal / other area	The project comes under Municipal Corporation of Greater Mumbai (MCGM).
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: Applied
	Approved Built-up Area: 43347.06
13.Note on the initiated work (If applicable)	Not yet started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	95,987.97 sq.mt.
16.Deductions	Deduction for internal road - 18,699.90 sq.mt.
17.Net Plot area	77,288.07 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 43,347.06 sq.mt.
	b) Non FSI area (sq. m.): 36,210.23 sq.mt
	c) Total BUA area (sq. m.): 79557.29
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** Applied
	Approved Non FSI area (sq. m.): Applied
	Date of Approval:
19.Total ground coverage (m2)	12,323.21 sq.mt
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12.84 %
21.Estimated cost of the project	2170000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No.1	Ground +1st to 12th Floor	40.65
2	Building No.2	Ground +1st to 8th Floors	28.65
3	Building No.3 With A, B, C, D, E Wing	Ground +1st Podium+ 1st to 20th Floors	68.60
4	Building No.4 (Club House)	Ground Floor	4.35
5	Site Office	Ground Floor	3.45

23.Number of tenants and shops	Total Residential Tenements - 620 nos.
24.Number of expected residents / users	Total Residents - 3100 nos.
25.Tenant density per hectare	65 Tenant 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.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	14 mt.
29.Existing structure (s) if any	7 Buildings to be demolished.
30.Details of the demolition with disposal (If applicable)	3400 Cu. M of demolition debris shall be disposed as per debris management plan.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	280
	Recycled water - Flushing (CMD):	141
	Recycled water - Gardening (CMD):	103
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	524
	Fire fighting - Underground water tank(CMD):	575
	Fire fighting - Overhead water tank(CMD):	155
	Excess treated water	97
Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	280
	Recycled water - Flushing (CMD):	141
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	421
	Fire fighting - Underground water tank(CMD):	575
	Fire fighting - Overhead water tank(CMD):	155
	Excess treated water	200
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:**	15 m below ground level
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	23 nos.
	Size of recharge pits :	Area - 9 sq.mt and Depth - 3 m
	Budgetary allocation (Capital cost) :	60.72 Lakhs.
	Budgetary allocation (O & M cost) :	3 Lakhs/Year
	Details of UGT tanks if any :	Building No.1 : Fire fighting water tank -75cu.m; Domestic water tank -18cu.m; Flushing water tank - 09cu.m Building No.2 : Domestic water tank -18cu.m; Flushing water tank - 09cu.m Building No.3 (Wing A) : Fire fighting water tank -200 cu.m; Domestic water tank -156 cu.m; Flushing water tank - 80 cu.m Building No.3 (Wing D) : Fire fighting water tank -300 cu.m; Domestic water tank -234 cu.m; Flushing water tank - 120 cu.m
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	Storm-water is designed for 50mm/hr for entire plot.
	Size of SWD:	Catch basin with pipe drain is proposed for storm-water, sizing will vary along length of drain.
Sewage and Waste water	**Sewage generation in KLD:**	379
	STP technology:	Phytorid
	Capacity of STP (CMD):	1 STP of 650 kld and 1 STP of 75 kld
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	86.71 Lakhs
	Budgetary allocation (O & M cost):	9 Lakhs/Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris quantity: 1200 cu. m , Excavated materials quantity : 73400 cu. m
	Disposal of the construction waste debris:	Construction debris 1200 cu. m and excavation material 49700 cu. m shall be partly reused on site and remaining 23700 cu. m shall be disposed of by covered trucks to the authorized sites.
Waste generation in the operation Phase:	**Dry waste:**	620 kg/day
	Wet waste:	930 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	38 kg.
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Wastes will be handed over to authorized agency/recycler
	Wet waste:	Waste will be process in Organic Waste Converter and compost will be used as manure for gardening
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	40 sq.mt
	Area for machinery:	10 sq.mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18.65 Lakhs
	O & M cost:	6.20 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 :**	20,574.57 sq.mt (On Ground -16,945.80 sq.mt + On Podium -3,628.77 sq.mt)
	No of trees to be cut :	Will be provided during presentation
	Number of trees to be planted :	1200 nos.
	List of proposed native trees :	Apta, Bhava, Son chapa, Bakul, Kadam, Sita Ashoka, Neem, Mango
	Timeline for completion of plantation :	2 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bauhinia racemosa	Apta	200	Small tree with small white flowers, butterfly host plant
2	Cassia fistula	Bhava	200	Medium sized deciduous tree, beautiful yellow flowers, Butterfly host plant
3	Michalia champaca	Son Chapa	200	Medium sized evergreen tree, fragrant yellow flowers, butterfly host plant
4	Mimusops elengi	Bakul	150	Shady tree, small white fragrant flowers
5	Anthocephallus cadamba	Kadam	150	Shady, large deciduous tree, fast growing graceful tree, ball shaped flowers
6	Saraca asoka	Sita Ashoka	150	Shady tree with red yellow flowers
7	Azadiracta indica	Neem	100	Large tree, good for roadside plantation
8	Magnifera indica	Mango	50	Fruits bearing tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	347 KW
	DG set as Power back-up during construction phase	250 KVA
	During Operation phase (Connected load):	10877.46 KW
	During Operation phase (Demand load):	3475.19 KW
	Transformer:	1 x 500 KVA + 5 x 1000 KVA
	DG set as Power back-up during operation phase:	1 x 650 KVA +1 x 500 KVA +1 x 250 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1) Common area lighting is LED
2) Solar PV cells for common area lighting.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy saving by using LED light in common area	0.92 %
2	Energy saving by Solar PV cell	4 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	149.04 Lakhs
	O & M cost:	1.49 Lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air and Noise	Site Barricading and Dust Control Measures	5
2	Water	Tanker Water For Construction And Waste Water Management	6
3	Solid waste	Construction Waste Management	4

4	Occupation Health and safety	Health Checkup of Workers, Disinfection at Site, First Aid Facility, Personal Protective Equipment	5
5	Environmental Monitoring	Air, Noise, Water, Biological	7

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 no. of STP of capacity 650 kld and 1 no. of STP of capacity 75 kld	86.71	9.00
2	Rainwater Harvesting System	23 nos. of recharge pits	60.72	3.00
3	Solid Waste Management	OWC, Manpower and colored dustbins	18.65	6.20
4	Green Belt Development	Landscaping and tree plantation	30.00	6.00
5	Energy Saving Measures	LED lights and Solar PV cells for common area lighting	149.04	1.49

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 no. of 16.50 mt wide road. One no. of 13.60 mt wide road.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	1 Podium in Building No.3 Area of podium - 5,654.31 sq.mt.
	Total Parking area:	11,413.33 sq.mt.
	Area per car:	28.60 sq. mt.
	Area per car:	28.60 sq. mt.
	Number of 2-Wheelers as approved by competent authority:	287 nos.
	Number of 4-Wheelers as approved by competent authority:	399 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	3.00 km from Sanjay Gandhi National Park
	Category as per schedule of EIA Notification sheet	8a (B2) Category
	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

Representative of PP was present during the meeting along with environmental consultant M/s. Fine Envirotech Engineers.

PP informed that, the project under consideration is Police staff quarters for Mumbai police project. PP further stated that, the total plot area of the project is 95,987.9Sq.mt having total construction area 79557.29 Sq.mt (FSI - 43,347.06 sq.mt + Non-FSI 36,210.23 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Building No 1	G + 1st to 12th Floor	40.65
Building No.2	G +1st to 8th Floors	28.65
Building No.3 With A, B, C, D, E Wing	G +1st Podium+ 1st to 20th Floors	68.60
Building No.4 (Club House)	Ground Floor	4.35
Site Office	Ground Floor	3.45

It is noted that the project earlier considered in 101st Meeting held on 31-05-2019 & deferred due to PP was absent.

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

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

Specific Conditions by SEAC:

1) committee noted that, existing structures comprising around 28000 Sq.mt area is not included in the CS. PP to revise the online CS with respect to 18 (b).
2) PP to ensure that, no construction should be carried out on 1:5 slope or more
3) PP to ensure that, STP should be on ground open to sky.
4) PP to ensure that, the project should be zero discharge during Non- Monsoon period.
5) PP to abide all the conditions laid down in Nalla remark & Storm water remark dated 8/2/2019.
6) 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.
7) 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 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 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. 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 expansion of existing project. *PP further stated that, t*he total plot area of the project is 60000 Sq.mt having total construction area 67373.427 Sq.mt. (FSI – 60000*1.541=92500 Total (Existing + Proposed) = (43820.176+44436.400) =88256.0176 sq.mt +NON FSI- Total (Existing + Proposed) = (3928.01 + 22937.027) = 26865.041 Sq.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
9Building No 1	2 basement; Ground+ 9 floors	45

It is noted that the project earlier considered in 91st SEAC-2 Day-2 Meeting held on 06-03-2019 & deferred with observations namely 1) to submit detail building wise (FSI, Non FSI, Total Built up area) Architect certificate regarding construction done on site prior to EIA Notification, 2006;as per EC received from local planning authority i.e annexure 14 along with copy of EC & plan submitted for the same. 2) to submit the chronology of the project. 3) to ensure that biomedical waste management should be on ground instead of basement. 4) to submit the Atomic Energy Regulatory Board (AERB) NoC. 5) to submit the details of ASHRAE standards mentioned in the PPT for space ventilation. 6) to submit the project specific DMP for disaster like radioactive material leakage, fire etc along with SOPs. 7) to submit the revised Indoor air quality, Indoor light quality analysis& Ventilation analysis report. 8) to submit the detail design & calculation for the ETP. 9) to carry out ECBC energy calculation studies. 10) to provide the better fire tender movement in centre. Also to provide high pressure hydrants in 4th floor & at various locations. 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,

DECISION OF SEAC

record.

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 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) PP to abide all conditions & remarks for radiation waste received from AERB

FINAL RECOMMENDATION

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

Agenda of 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Amendment in Environmental Clearance for proposed residential project

Is a Violation Case: No

1.Name of Project	Unnathi Estate
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajan Bandelkar; Unnathi Estate
4.Name of Consultant	Dr. D. A. Patil; Mahabal Enviro Engg. Pvt. Ltd.
5.Type of project	Residential Project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Obtained Prior EC vide No. SEAC-2010/CR-686/TC.2 dated 30.07.2013
8.Location of the project	proposed residential project "Unnathi Woods" on Plot bearing S. No 246, 247/1 & 247/2 of Village Kavesar, Ghodbunder Road, Thane, Maharashtra
9.Taluka	Thane
10.Village	Kavesar
Correspondence Name:	Mr. Rajan Bandelkar; Unnathi Estate
Room Number:	Plot no. 1
Floor:	-
Building Name:	Mohan Mill Compound
Road/Street Name:	Ghodbunder Road
Locality:	Next to Audi Thane
City:	Thane 400607
11.Whether in Corporation / Municipal / other area	Thane Municipal Corporation (TMC)
12.IOD/IOA/Concession/Plan Approval Number	Plane Approved by TMC
	IOD/IOA/Concession/Plan Approval Number: VP No. S06/0034/09 TMC/TDD/1951/16 dated 14.10.2016
	Approved Built-up Area: 12881.73
13.Note on the initiated work (If applicable)	As of today we have constructed 7965.49 (Bldg. G1+G2) m2 area
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	11,230.00 m2
16.Deductions	-
17.Net Plot area	11,230.00 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20,313.45 m2
	b) Non FSI area (sq. m.): 12,219.72 m2
	c) Total BUA area (sq. m.): 32533.17
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 20313.45
	Approved Non FSI area (sq. m.): 12219.72
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2691.68 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24%
21.Estimated cost of the project	650000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Bldg. G1	St + 13th Upper Floors	39.96
2	Bldg. G2	St + 17th Upper Floors	51.95
3	Bldg. G3	St + 21nd Upper Floors	63.55
4	Bldg. G4	St + 22nd Upper Floors	66.45

23.Number of tenants and shops	Flats: 566 Nos.
24.Number of expected residents / users	2830 Nos.
25.Tenant density per hectare	300 Tenement/Hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The proposed project is accessible by 30 m wide DP Road on East Side and 20 m wide DP road on south side
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6 - 9 m
29.Existing structure (s) if any	Nil
30.Details of the demolition with disposal (If applicable)	Amendment Project

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):	255
	Recycled water - Flushing (CMD):	127
	Recycled water - Gardening (CMD):	14
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	382
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	212
Wet season:	**Source of water**	TMC
	Fresh water (CMD):	230
	Recycled water - Flushing (CMD):	127
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	382
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	226
Details of Swimming pool (If any)	-	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2 to 3 m
	Size and no of RWH tank(s) and Quantity:	RWH Tank: 1 No. Capacity: 50 KL
	Location of the RWH tank(s):	Below ground
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	Rs. 12 Lakh
	Budgetary allocation (O & M cost) :	Rs. 1.0 Lakh/year
	Details of UGT tanks if any :	As per NBC, Underground
35.Storm water drainage	**Natural water drainage pattern:**	From West to East
	Quantity of storm water:	1179.07 m3/sec
	Size of SWD:	0.35 x 0.50 m; 0.45 x 0.6 m
Sewage and Waste water	**Sewage generation in KLD:**	357 KLD
	STP technology:	FBR
	Capacity of STP (CMD):	1 STP of 400 KLD
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	Rs. 88 Lacs
	Budgetary allocation (O & M cost):	Rs. 16 Lacs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris: : 945 m3
	Disposal of the construction waste debris:	The construction debris will be disposed as per the Construction and Demolition Waste Management Rules 2016.
Waste generation in the operation Phase:	**Dry waste:**	566 kg/d
	Wet waste:	849 kg/d
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	4 kg/d
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed off to recyclers.
	Wet waste:	Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Biomedical waste will be disposed as per BMW Rules 2016
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	The E-waste shall be handed over to e-waste management vendor authorized by MPCB.
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	80 m2
	Area for machinery:	30 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 36 Lacs
	O & M cost:	Rs. 14 Lacs/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	2808.87 m2
	No of trees to be cut :	As per Tree cutting NOC
	Number of trees to be planted :	140 Nos
	List of proposed native trees :	As mentioned below
	Timeline for completion of plantation :	Will be planted after completion of construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	DELONIX REGIA	Gulmohar	4	Red flowering Medium Sized tree
2	ANTHOCEPHALUS CADAMBA	Kadamb	4	Shady, large tree, ball shaped flowers.
3	LAGERSTOREMIA SPECIOSA	Tamhan	8	State flower tree of Maharashtra, Medium sized tree, beautiful purple flowers
4	ALBIZIA LEBEK	Shirish	3	Shady tree, yellowish green fragrant flowers
5	BAUHINIA PURPUREA	Apta	10	Small tree with small white flowers, Butterfly host plant
6	BOMBAX CEIBA	Katesavar	4	Large tree, red flowers
7	MIMUSOPS ELENGI	Bakul	7	Shady tree, small white fragrant flowers
8	MICHELIA CHAMPACA	Son chafa	20	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
9	AZADIRACHTA INDICA	Neem	10	Semi-evergreen tree with medicinal value
10	SARACA ASOCA	Sita Ashok	12	Shady tree with red-yellow flowers.
11	ACACIA CATECHU	Khair	7	A large deciduous tree
12	CASSIA FISTULA	Bahava	12	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
13	ERYTHRINA SUBEROSA	Pangara	15	Medium sized deciduous tree. Bright scarlet flowers
14	AGELE MARMELOS	bel	9	small to medium-sized tree with medicinal and spiritual value
15	PONGAMIA PINNATA	Karanj	15	Shady tree.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 kVA
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	2.8 MW
	During Operation phase (Demand load):	1.5 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	1 x 650 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• Natural shading through elevation features to minimize heat gain and reduce air-conditioning requirement • Use of low-e glass to reduce power requirement • Solar lighting in common areas, garden and road • Solar hot water for residential buildings • Energy efficient lighting fixtures (LED lights) to all buildings	23.82%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 35 Lacs
	O & M cost:	Rs. 2 Lacs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	4
2	Site sanitation and Potable Water Supply to Labour	-	9

3	Environmental Monitoring	-	4
4	Health check-up & first aid	-	12
5	Safety Personal Protective Equipment	-	25
6	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	-	8
7	Safety nets	-	35
8	Storm water Management (SWD along plot boundary and Sedimentation Pits)	-	10
9	Tyre cleaning and Vehicle maintenance	-	6
10	Safety Training to Workers (Twice in Year), Safety Officer	-	8
11	Disinfection	-	5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP	-	88	16
2	Solar System	-	35	2
3	RWH	-	12	1
4	Solid Waste Treatment Plant	-	36	14
5	Landscape	-	28	4
6	Environmental monitoring	-	-	4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	-
	Number and area of podia:	1 Podium with 1068.79 m2
	Total Parking area:	2150 m2
	Area per car:	13.75 m2
	Area per car:	13.75 m2
	Number of 2-Wheelers as approved by competent authority:	303 Nos.
	Number of 4-Wheelers as approved by competent authority:	179 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	Min 6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	SGNP: 2.7 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 Mr. Rajan Bandelkarwas present during the meeting along with environmental consultant M/s. Mahabal Enviro Engg. Pvt. Ltd.

PP informed that, the project under consideration is *amendment in existing project. PP further stated that, t*he total plot area of the project is 11,230.00 Sq.mt having total construction area 36251 Sq.mt.(FSI – 20,200 sq.mt +NON FSI- 16051 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Bldg. G1	St + 13th Upper Floors	39.96
Bldg. G2	St + 17th Upper Floors	51.95
Bldg. G3	St + 21nd Upper Floors	63.55
Bldg. G4	St + 22nd Upper Floors	66.45

It is noted that, Project has received Environmental clearance vide letter dated 30.07.2013.

It is noted that the project earlier considered in 103rd SEAC-2 (Day-2) Meeting held on 21-06-2019 & deferred with observations Committee noted that, 1) Committee asked PP & consultant regarding access road to the project site, Environment consultant misleads the committee regarding Access road & RG area of the project site. PP & environment consultant should submit in writing regarding the same. 2) PP to ensure that, clause regarding right of way (on north-south- 12 mt road passing through other project of PP should be clearly specify in the deed of conveyance. 3) As per the Hon'ble Supreme Court's Order, PP to Provide contiguous RG with minimum 7.5 m width on Mother Earth. To follows guidelines of Hon. Supreme court order in providing R.G 4) PP to submit the sewerage network, storm water drain NOC from local planning authority. 5) Committee noted that 200mld excess treated water is proposed to give to nearby public garden. PP to submit the approval from local planning authority regarding the same. 6) PP to ensure ECBC norms are complied. 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 above points.

Specific Conditions by SEAC:

1) Committee noted that, SWD remarks vide letter dated 21/3/2012 stated that, storm water should be connected to natural nalla, but PP stated that, the SWD work is already completed on site. PP to submit the updated remarks regarding storm water from local planning authority. It is also noted that sewerage disposal system of local body is still not complete, though in progress, Local body to also ensure that no occupation certificate is given to the project until storm water drain is developed and connected to the project & STP of the local body is completed and commissioned and the projects excess treat water is connected to the sewerage disposal system at local body.
2) 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.
3) PP to submit CER prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project or Environment Department may direct PP to undertake CER work in identified area, as identified by Environment Department.

FINAL RECOMMENDATION

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

Agenda of 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Redevelopment of Bombay Development Directorate (BDD) Chawls at Worli, Mumbai, Maharashtra

Is a Violation Case: No

1.Name of Project	MUMBAI HOUSING AND AREA DEVELOPMENT BOARD (A regional unit of MHADA)
2.Type of institution	Government
3.Name of Project Proponent	MUMBAI HOUSING AND AREA DEVELOPMENT BOARD (A regional unit of MHADA)
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	MHADA (Redevelopment of BDD Chawls)
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	CTS No. 1539 & 1540 Lower Parel, Worli, Mumbai, Maharashtra
9.Taluka	Mumbai
10.Village	Worli
Correspondence Name:	MUMBAI HOUSING AND AREA DEVELOPMENT BOARD (A regional unit of MHADA)
Room Number:	--
Floor:	--
Building Name:	Griha Nirman Bhavan, Kalanagar, Bandra (East), Mumbai- 400051
Road/Street Name:	--
Locality:	Kalanagar
City:	Bandra (East), Mumbai- 400051
11.Whether in Corporation / Municipal / other area	Municipal Corporation: Municipal Corporation of Greater Mumbai (M.C.G.M.) Planning Authority: MUMBAI HOUSING AND AREA DEVELOPMENT BOARD (A regional unit of MHADA)
12.IOD/IOA/Concession/Plan Approval Number	Applied for IOA
	IOD/IOA/Concession/Plan Approval Number: --
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI received from Maharashtra Housing and Area Development Authority (MHADA) dt. 09.02.2018.
15.Total Plot Area (sq. m.)	2,21,424.81 Sq. mt.
16.Deductions	87,010.47 Sq. mt.
17.Net Plot area	1,34,414.34 Sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 11,20,925.56 Sq.mt.
	b) Non FSI area (sq. m.): 12,46,051.46 Sq.mt.
	c) Total BUA area (sq. m.): 2366977.02
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 12-06-2018
19.Total ground coverage (m2)	94778.01 sq. mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	70.5%
21.Estimated cost of the project	107300000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehabilitation (Building 1 to 8)	--	--
2	Building 1 (14 Wings)	Wing A to N: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
3	Building 2 (14 Wings)	Wing A to N: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
4	Building 3 (8 Wings)	Wing A to H: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
5	Building 4 (10 Wings)	Wing A to J: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
6	Building 5 (14 Wings)	Wing A to N: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
7	Building 6 (14 Wings)	Wing A to N: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
8	Building 7 (8 Wings)	Wing A to H: 3 Basements + Ground + 21 Floors	63.75
9	Building 8 (Slum Building - 2 wings)	Wing A & B: 1 Basement + Ground + 1st to 20th (pt) Floors	60.75
10	Reservation (Building 9 to 12)	--	--
11	Building 9 (School Building)	1 Basement + Ground + 7 Floors	29.40
12	Building 10 (Hospital Building)	Ground + 2 Floors	12.15
13	Building 11 (Ladies & Gents Hostel)	Stilt + 1st to 7th Floors	27.30
14	Building 12 (Welfare Centre/ Club Gymkhana)	Stilt + 1st to 6th (pt) Floors	28.65
15	Sale (Building 13 to 15)	--	--
16	Building 13 (4 Wings)	Wing A to D: 3 Basements + Ground + 8 Podia + 66 Floors	277.05
17	Building 14 (6 Wings)	Wing A to F: 3 Basements + Ground + 8 Podia + 66 Floors	277.05
18	Building 15 (Commercial Building)	3 Basements + Ground + 6 Podia + 47 Floors	150.45

23.Number of tenants and shops	Rehabilitation Building : Residential Flats: 9246 nos., Shops: 639 nos., Welfare Center: 6 nos., Balwadi: 6 nos., NGO Offices, Amenity Area:- Bank: 6 nos., Community Centre, Post Office, Municipal Dispensary, Government Office Reservation Building : Students: 2400 Nos., Hospital Beds: 80 Nos., Hostel Rooms: 160 Nos. Sale Building: Residential Flats: 4996 nos., Offices
24.Number of expected residents / users	Redevelopment: 48691 Nos. Reservation: 3445 Nos. Sale: 34273 Nos. Total: 86409 Nos.
25.Tenant density per hectare	1107/hectors
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	It is connected by 26.83 mt. wide Shivram's Amritwar Marg, 9.00 mt. wide Acharya Dhondiram Narayan Road, 12.00 mt. wide Bhagoji Waghmare Marg, 27.00 mt. wide G.M. Bhosale Marg and 18.30 mt. wide Ganpat Jadhav Marg.

28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min. 7.5 mt.
29.Existing structure (s) if any	There are total 121 nos. of existing Chawls at project site.
30.Details of the demolition with disposal (If applicable)	Demolition of existing Chawls is involved. Demolition debris and Excavation material shall be partly reused & remaining shall be disposed to the authorized landfill site with prior permission of M.C.G.M.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	M.C.G.M/ Tanker water for Swimming pool make up
	Fresh water (CMD):	6892 KLD
	Recycled water - Flushing (CMD):	3544 KLD
	Recycled water - Gardening (CMD):	143 KLD
	Swimming pool make up (Cum):	8 KLD
	Total Water Requirement (CMD) :	10587 KLD
	Fire fighting - Underground water tank(CMD):	14825 KL
	Fire fighting - Overhead water tank(CMD):	2960 KL
	Excess treated water	4465 KLD

Wet season:	**Source of water**	M.C.G.M/ Tanker water for Swimming pool make up/ Partly by RWH tank
	Fresh water (CMD):	6892 KLD
	Recycled water - Flushing (CMD):	3544 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	8 KLD
	Total Water Requirement (CMD) :	10444 KLD
	Fire fighting - Underground water tank(CMD):	14825 KL
	Fire fighting - Overhead water tank(CMD):	2960 KL
	Excess treated water	4608 KLD
Details of Swimming pool (If any)	Swimming pool (2 nos.) make up water requirement: 8 KL	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5.5 mt. to 7.2 mt. below ground surface.
	Size and no of RWH tank(s) and Quantity:	26 RWH tanks of total capacity 2015 KL.
	Location of the RWH tank(s):	Below ground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 279.50 Lacs
	Budgetary allocation (O & M cost) :	Rs. 11.51 Lacs/annum
	Details of UGT tanks if any :	Location of UG tanks: Basement level

35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged in to the external drain.
	Quantity of storm water:	7.60 m3/sec
	Size of SWD:	As per SWD NOC
Sewage and Waste water	**Sewage generation in KLD:**	9058 KLD
	STP technology:	Moving Bed Bio Reactor (MBBR)
	Capacity of STP (CMD):	41 nos. of STPs of total capacity 9910 KL and 1 no. of ETP of total capacity 2.5 KL
	Location & area of the STP:	Ground level
	Budgetary allocation (Capital cost):	Rs. 2075.18 Lacs
	Budgetary allocation (O & M cost):	Rs. 531.34 Lacs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation material shall be partly used on site for road leveling and remaining shall be disposed to authorized landfill site as per permission from M.C.G.M.
	Disposal of the construction waste debris:	Construction waste shall be partly recycled and partly disposed to the authorized site with the permission of M.C.G.M.
Waste generation in the operation Phase:	**Dry waste:**	20498 kg/day
	Wet waste:	13665 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	30 kg/day
	STP Sludge (Dry sludge):	1359 kg/day
	Others if any:	E-waste: 615 Kg/month
Mode of Disposal of waste:	**Dry waste:**	To Authorized recyclers
	Wet waste:	Treatment in Organic Waste Converter
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Waste will be handled and disposed as per Bio-medical waste (Management and Handling rules -2016)
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	E waste - To Authorized recyclers
Area requirement:	**Location(s):**	Ground level
	Area for the storage of waste & other material:	1640 Sq.mt.
	Area for machinery:	1135 Sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 376.75 Lacs
	O & M cost:	Rs. 36.52 Lacs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

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 :	13975.50 sq.mt.
	No of trees to be cut :	253 Nos.
	Number of trees to be planted :	1597 Nos.
	List of proposed native trees :	As shown below
	Timeline for completion of plantation :	At the time of 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	Neolamarckia cadamba	Kadamb	--	• Quick growing, large traffic like spreading branches • Fragment orange flowers attracts pollinators, • Helps in improving physical and chemical properties of soil, • Shady, large tree, ball shaped flowers. • It acquires profitable medicinal and commercial properties.
2	Areca catechu	Supari	--	• It is a medium-sized and palm tree • The seed contains alkaloids such as arecaidine and arecoline. • Used as an interior landscaping species, Nuts are used for chewing.
3	Pterospermum acerifolium	Muchkund	--	• Leaves are simple, alternate, have stipules and are palmately ribbed. • It has large fragrant nocturnal white flowers, occurring in axillary fascicles. • Fruit is a capsule, angled and furfuraceaous. • This plant is seen only in cultivation.
4	Michelia champaca	Sonchafa	--	• It is a large evergreen tree. • It is best known for its strongly fragrant yellow or white flowers.
5	Terminalia elliptica	Aain	--	• The wood is used for furniture • The leaves are used as food by Antheraea paphia (silkworms) • Water stored in the stem is often tapped and used as a source of potable water in the summer by forest folk
6	Nyctanthus arborea	Parijatak	--	• Small deciduous fast growing tree or shrub, beautiful fragrant flowers. • Its leaves and bark has medicinal properties.
7	Drypetes roxburghi	Putranjiva	--	• Medium sized evergreen tree, its bark, leaves and fruit has medicinal properties.
8	Moringa oleifera	Shevga	--	• It is a fast growing, evergreen, deciduous tree. • The bark has a whitish-grey color and is surrounded by thick cork. • It grows best in dry sandy soil and tolerates poor soil, including coastal areas. • Its fruits are edible and used in very recopies of India.
9	Terminalia chebula	Hirda	--	• Medium to large deciduous tree. • Medicinal use
10	Azardirachta indica	Neem	--	• Large tree, fast - growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation.
11	Mesua ferrea	Nagchapha	--	• Evergreen tree, • Ornamental tree
12	Prosopis cineraria	Shami	--	• Flowering tree • Highly revered among Hindus and worshipped as part of Dasahra festival

13	Cordia dichotoma	Bhokar	--	• Moderate-sized deciduous tree with a short bole and spreading crow.
14	Bauhinia racemosa	Apta	--	• Small tree with small white flowers, leaves are used to make bidis, Butterfly host plant
15	Calophyllum inophyllum	Sultan champa	--	• Slow-growing, medium-sized evergreen tree with a spreading crown
16	Memecylon umbellatum	Anjani	--	• The leaves are used in the treatment of gonorrhea, or when mixed with several other ingredients, they make good fomentations for external use.
17	Mimusops elengi	Bakul	--	• Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.
18	Mangifera indica	Mango	--	• It is large evergreen and shady tree. • Its uses are clearing digestion and acidity due to pitta (heat). • Medicinal properties are attributed to different parts of mango tree.
19	Sapindus laurifolius	Ritha	--	• Large tree, growing up to 25 m tall. • Seeds are popular as a traditional washing soap.
20	Erythrina verigata	Pangara	--	• It is a drought resistant tree. • Flowers are pollinated by birds.
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 :**	Brihanmumbai Electric Supply and Transport (BEST)
	During Construction Phase: (Demand Load)	150 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	131176 KW
	During Operation phase (Demand load):	69656 KW
	Transformer:	97 Nos. of 630 kVA each, 1 No. of 750 kVA, 1 Nos. of 160 kVA, 2 Nos. of 250 kVA each, 1 no. of 315 kVA, 5 nos. of 1600 kVA each
	DG set as Power back-up during operation phase:	5 nos. of 1000 kVA each, 34 nos. of 750 kVA each, 1 nos. of 250 kVA, 1 no. of 180 kVA, 2 no. of 160 kVA, 1 no. of 30 kVA, 1 no. of 1250 kVA, 1 no. of 2000 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Energy saving measures:
- Provision of solar water heating system
- Provision of solar PV panels
- Use of BEE certified motors
- Use of group controls and variable speed drivers
- Use of LED lights instead of fluorescent light fitting and copper ballast
- Use of energy efficient LED light fixtures
- Use of star rated appliances

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy saving	24%
2		

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	NA	Sewage Treatment Plant (STP)
Solid waste	NA	Organic Waste Convertor

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 1472.00 Lacs
	O & M cost:	Rs. 125.00 Lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

1	Air Environment	Water for Dust Suppression	34.56
2	Air Environment	Air and Noise Monitoring: On site Sensors	14.00
3	Air Environment	Air and Noise Monitoring: By outside MoEF & CC Approved Laboratory	5.28
4	Air Environment	EMP for Batching Plant	4.29
5	Water Environment	Drinking water analysis	0.24
6	Land Environment	Site Sanitation	10.00
7	Health & Hygiene	Disinfection- Pest Control	9.60
8	Health & Hygiene	Health Check-up of workers	120.00

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 - Ambient Air quality & Noise Monitoring:	On site sensors	No set up cost is involved as already considered Construction Phase	0.50
2	AIR & NOISE ENVIRONMENT - Ambient Air quality & Noise Monitoring:	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.66
3	AIR & NOISE ENVIRONMENT - Cost for DG Stack Exhaust Monitoring	15 nos. of stacks	No set up cost is involved	0.72
4	AIR & NOISE ENVIRONMENT - Cost for Plantation	RG area on ground	124.37	1.20
5	WATER ENVIRONMENT - Waste water treatment	Cost for sewage Treatment Plant	1314.68	487.71
6	WATER ENVIRONMENT - Waste water treatment	Cost for Effluent Treatment Plant	4.50	0.50
7	WATER ENVIRONMENT - Cost for water & waste water Monitoring	On site sensors	756.00	42.00
8	WATER ENVIRONMENT - Cost for water & waste water Monitoring	By outside MoEF & CC Approved Laboratory	No set up cost is involved	1.13
9	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for RWH tanks	201.50	10.08

10	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for Rain Water collected in tanks	78.00	0.26
11	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	1.17
12	LAND ENVIRONMENT - Solid Waste Management	Cost for Treatment of biodegradable garbage in OWC	376.75	34.20
13	LAND ENVIRONMENT - Solid Waste Management	Environmental Monitoring	No set up cost is involved	2.32
14	ENERGY CONSERVATION - Use of renewable energy	Solar system	1472.00	125.00

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:	38 entry and exists

Parking details:	**Number and area of basement:**	Building 1 to 7: 3 Basements (Area: 228654.37 sq.mt.) Building 8: 1 Basement (Area: 1226.35 sq.mt.) Building 9: 1 Basement (Area: 1789.34 sq.mt.) Building 13 to 15: 3 Basements (Area: 118724.96 sq.mt.)
	Number and area of podia:	Building 1 to 6: 1 Podium (Area: 52964.69 sq.mt.) Building 13 & 14: 8 Podia (Area: 211749.21 sq.mt.) Building 15: 8 Podia (Area: 19941.69 sq.mt.)
	Total Parking area:	351766.65 Sq. mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	4601 Nos.
	Number of 4-Wheelers as approved by competent authority:	Cars: 13282 Nos. Ambulance: 1 No. School Bus: 2 Nos.
	Public Transport:	NA
	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	NA
	Category as per schedule of EIA Notification sheet	8 (b) B1
	Court cases pending if any	No
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	29-11-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP Mr Sanjay Lad was present during the meeting along with environmental consultant M/s. Ultra-Tech.

PP informed that, the project under consideration is proposed new MHADA (Redevelopment of BDD Chawls) project. PP further stated that, the total plot area of the project is As per earlier EC, Total plot area: 2,21,424.81 Sq.mt. having total construction area 2366977.02 Sq.mt. (FSI - 11,20,925.56 Sq.mt + NON FSI- 12,46,051.46 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Rehabilitation (Building 1 to 8)	--	--
Building 1 (14 Wings)	Wing A to N: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
Building 2 (14 Wings)	Wing A to N: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
Building 3 (8 Wings)	Wing A to H: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
Building 4 (10 Wings)	Wing A to J: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
Building 5 (14 Wings)	Wing A to N: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
Building 6 (14 Wings)	Wing A to N: 3 Basements + Ground + 1 Podium + 22 Floors	69.45
Building 7 (8 Wings)	Wing A to H: 3 Basements + Ground + 21 Floors	63.75
Building 8 (Slum Building - 2 wings)	Wing A & B: 1 Basement + Ground + 1st to 20th (pt) Floors	60.75
Reservation (Building 9 to 12)	--	--
Building 9 (School Building)	1 Basement + Ground + 7 Floors	29.40
Building 10 (Hospital Building)	Ground + 2 Floors	12.15
Building 11 (Ladies & Gents Hostel)	Stilt + 1st to 7th Floors	27.30
Building 12 (Welfare Centre/ Club Gymkhana)	Stilt + 1st to 6th (pt) Floors	28.65
Sale (Building 13 to 15)	--	--
Building 13 (4 Wings)	Wing A to D: 3 Basements + Ground + 8 Podia + 66 Floors	277.05
Building 14 (6 Wings)	Wing A to F: 3 Basements + Ground + 8 Podia + 66 Floors	277.05
Building 15 (Commercial Building)	3 Basements + Ground + 6 Podia + 47 Floors	150.45

It is noted that the project earlier considered in 103rd SEAC-2 (Day-1) Meeting held on 20-06-2019 & deferred with observations Committee namely 1) PP to revise & submit the parking calculation statement for rehab, sale & commercial. In view of large number of parking of flat owners on public roads thereby causing traffic jams noticed in the city, the PP is suggested to provide for at least one parking for each flat in the project. 2) PP to ensure that number of trees to be planted should be 2250. 3) PP to explore the possibility to use permeable concrete for construction of roads. 4) Committee noted that 41 numbers of STP proposed in project. PP to explore the possibility to reduce the number of STPs & PP to ensure that 40% area of STP tanks should be open to sky for adequate ventilation. 5) PP to submit the sector wise STP location plan & also earmark the driveway. 6) PP to ensure that, major drains (more than 2mt wide) should not be closed may be covered by grill cover & not by cement cover and instead of pipe road drains PP to provide rectangular drains. 7) PP to submit the details regarding amenities to be provided like health, education, market, school etc 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

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 40% area of STP tanks should be open to sky for adequate ventilation.
2) As agreed by PP, the number of trees to be planted should be 2250 & permeable concrete will be used for construction of roads.
3) 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.
4) 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 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Addition of one hospital "Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre" in existing ACTREC Campus of Tata Memorial Hospital located at Plot no. 1 & 2, Sector 22, Kharghar, Navi Mumbai, Maharashtra

Is a Violation Case: No

1.Name of Project	Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre
2.Type of institution	Government
3.Name of Project Proponent	M/s Tata Memorial Centre
4.Name of Consultant	NABET Accredited Environmental Consultant: Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction
6.New project/expansion in existing project/modernization/diversification in existing project	New Building Construction within ACTREC Campus
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	(1) Radiological Research unit (RRU) and Administrative Block: SEAC2013/CR-101/TC-I dated. 8.4.2013 (2) Amended EC for Radiological Research unit (RRU) and Administrative Block and Center for Cancer Epidemiology (CCE, Archive and Record Storage): SEAC2013/CR-101/TC-I dated 11.12.2015 (3) Addition of Hematolymphoid Block: SEAC2213/CR-352/TC-II dated 12.1.2016 (4) Addition of Bio-Bank structure: SEAC-2016/C. R.424/TC-1 dated 12.5.2017 (5) Aasha Niwas –Dormitory Building: CIDCO/ACP(BP/DP/NT)/EC/2018/642 dated on 12.1.2018 (6) Hadron Beam Facility (Proton Therapy) Facility and Radiological Research Unit & Administrative Block (RRU): CIDCO/ACP(BP/DP/NT)/EC/2018/643 dated on 12.1.2018
8.Location of the project	Plot no. 1 & 2, Sector 22, Kharghar, Navi Mumbai, Maharashtra
9.Taluka	Panvel
10.Village	Kharghar
Correspondence Name:	Dr. Sudeep Gupta, Director- ACTREC
Room Number:	-
Floor:	3rd Floor, Main Building
Building Name:	M/s. Tata Memorial Centre - ACTREC
Road/Street Name:	Sector 22
Locality:	Kharghar
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	CIDCO
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 28064.96
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI issued vide letter number CIDCO/BP/TPO(NM)2019/1084 dated 15/03/2019
15.Total Plot Area (sq. m.)	240000.07
16.Deductions	NA
17.Net Plot area	240000.07 (Plot No 1 & Plot No 2)
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Existing (68243.38) + Proposed (25007.1) = 93250.48
	b) Non FSI area (sq. m.): Existing (14403.68) + Proposed (3057.86) = 17461.54
	c) Total BUA area (sq. m.): 110712.03
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 25007.1
	Approved Non FSI area (sq. m.): 3057.78
	Date of Approval: 15-03-2019
19.Total ground coverage (m2)	Existing: 28512.64 + Proposed: 2652.64 = 31165.28

20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Existing: 11.88 % + Proposed: 1.10 % = 12.98 %
21.Estimated cost of the project	900000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Compound Wall Project House (Prior 2006)	G	4.2
2	Compound Wall & Guard House (Prior 2006)	G	4.2
3	Staff Quraters - Type II - B & III-C (64 flats) (Prior 2006)	G+3	15
4	CRI (Cancer Research Institute) (Prior 2006)	G+3	15
5	Animal House & Service Block (Prior 2006)	G+1	7.8
6	Ward Block (Prior 2006)	G+2	11.4
7	CRC (Clinical Research Centre) (Prior 2006)	G+3	15
8	Vishramgrih (Prior 2006)	G+4	18.6
9	Faculty Building (Prior 2006)	G+1	7.8
10	Addition Alteration in Staff Quarter Building II – B (Prior 2006)	G+3	15
11	Radiological research Unit (RRU) & Administration Block (EC received 2015)	B+G+7 UF	35.90
12	Centre for cancer epidemiology – CCE (EC received 2015)	G+7	28.80
13	Archive & Record Storage (EC received 2015)	G+4	18.00
14	Hematolymphoid Block (EC received 2016)	G+7	24.00
15	Utility Block (EC received 2016)	G	4.50
16	Medical Gas Manifold (EC received 2016)	G	4.50
17	Electrical Sub-station (EC received 2016)	G	3.00
18	Entrance Structure (EC received 2016)	G	4.50
19	Bio Bank (EC received 2017)	G	5.4
20	Hardon Block (EC received 2018)	G+ 1 UF	8.20
21	Aasha Niwas (EC received 2018)	Stilt + Ground + 11 UF	48.75
22	Proposed Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre	G+10	45

23.Number of tenants and shops	NA
24.Number of expected residents / users	Existing: 4152 + Proposed: 1330 = 5482

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	9 m
29.Existing structure (s) if any	Compound Wall Project House, Guard House, Staff Quraters - Type II - B & III-C (64 flats), CRI (Cancer Research Institute), Animal House & Service Block, Ward Block, CRC (Clinical Research Centre), Vishramgrih, Faculty Building, Addition Alteration in Staff Quarter Building II – B, Cancer Epidemology building & Radiological Research Unit
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	CIDCO
	Fresh water (CMD):	554.92 (Existing) + 153.25 (Proposed) = 708.17
	Recycled water - Flushing (CMD):	109.25 (Existing) + 77 (Proposed) = 186.25
	Recycled water - Gardening (CMD):	56.4 (Existing) + 5 (Proposed) = 61.4
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	720.57 (Existing) + 235.25 (Proposed) = 955.82
	Fire fighting - Underground water tank(CMD):	Proposed-2150
	Fire fighting - Overhead water tank(CMD):	Proposed-30
	Excess treated water	Existing-32 + Proposed-38 (Proposed) = 70

Wet season:	**Source of water**	CIDCO
	Fresh water (CMD):	554.92 (Existing) + Proposed- 153.25 (Proposed) = 708.17
	Recycled water - Flushing (CMD):	109.25 (Existing) + Proposed-77 (Proposed) = 186.25
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	664.17 (Existing) + Proposed-230.25 (Proposed) = 894.42
	Fire fighting - Underground water tank(CMD):	Proposed-2150
	Fire fighting - Overhead water tank(CMD):	Proposed: 30 CMD
	Excess treated water	88 (Existing) + 43 (Proposed) = 131.41
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	664.17	230.25	894.42	63.49	30.25	93.74	600.68	200	800.68

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3-6.5 m
	Size and no of RWH tank(s) and Quantity:	Proposed: 1 RWH Tank of Capacity: 150 CMD Size = 10*6*2.6m
	Location of the RWH tank(s):	Ground Floor
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	20 lakhs
	Budgetary allocation (O & M cost) :	1 lakh/year
	Details of UGT tanks if any :	NA

35.Storm water drainage	**Natural water drainage pattern:**	From North to South as per contour
	Quantity of storm water:	73.44 cum/day
	Size of SWD:	450 mm wide drain channel

Sewage and Waste water	**Sewage generation in KLD:**	Existing: 368.14 (CIDCO STP) + On-going Construction:232.54 (ACTREC STP) + Proposed – 200 (ACTREC STP) = 800.68
	STP technology:	MBBR technology
	Capacity of STP (CMD):	Proposed - 300 KLD + Additional STP capacity -150 KLD
	Location & area of the STP:	Near Radiological Research & Administrative Unit, Ground: 745 m2
	Budgetary allocation (Capital cost):	300 lakhs
	Budgetary allocation (O & M cost):	8 lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation Quantity: 9288 cum
	Disposal of the construction waste debris:	will be used for filling the plot & maintaining natural slope
Waste generation in the operation Phase:	**Dry waste:**	655.99 Kg/day (Existing) + 95.2 Kg/day (Proposed) = 751.19 Kg/day
	Wet waste:	532.81 Kg/day (Existing) + 74.8 Kg/day (Proposed) = 607.61 Kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	2194.76 kg/day (Existing) + 180 kg/day (Proposed) = 2374.76 kg/day
	STP Sludge (Dry sludge):	25 kg
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Segregation & handling to authorized recyclers
	Wet waste:	Treatment by “Nisargruna” Bio-gas Plant
	Hazardous waste:	Through MPCB authorized collection agency
	Biomedical waste (If applicable):	Through MPCB authorized collection agency
	STP Sludge (Dry sludge):	Used as Manure in Landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	At Utility Area
	Area for the storage of waste & other material:	300 sq. m.
	Area for machinery:	50 sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	12 lakhs
	O & M cost:	2.5 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	DG oil	Schedule IV, Item no. 20	Liters	As on generation	As on generation	As on generation	Used oil will be handed over to the authorized collection agency

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	1250 KVA X 3	HSD, Total: 750 L/ Hr	3	26	0.4	529 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	High speed Diesel	Not applicable	750 L/ Hr	750 L/ Hr
41.Source of Fuel		Local authorized vendors		
42.Mode of Transportation of fuel to site		Through local authorized vendors		

43.Green Belt Development	**Total RG area :**	54,729.85 sq. m.
	No of trees to be cut :	Trees to be cut – 13, Transplanted Trees - 19
	Number of trees to be planted :	1923 (Existing) + 39 (Proposed) =1962
	List of proposed native trees :	39
	Timeline for completion of plantation :	Till the project completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Tamarindus indica	Chinch	4	Fruits are favored by wild animals. Good for shade, reduces temperature.
2	Azadirachta indica	Neem	7	Medicinal tree. Native, fast growing tree. Religiously important tree
3	Cassia fistula	Bahava	7	Popularly known as 'Golden shower' tree for its beautiful yellow hanging flowers. Native ornamental tree. Pods are medicinal.

4	Saraca indica	Sita Ashok	6	Native medicinal tree. Ornamental tree with attractive red-yellow flowers, good foliage.
5	Michelia champaca	Sonchafa	6	Yellow fragrant flowers. Fast growing native ornamental tree.
6	Albizia lebbeck	Shirish	6	Native tree good for shade. Fragrant yellow flowers. Good for roadside plantation.
7	Bombex Ceiba	katesawar	3	Native Tree with beautiful foliage and gorgeous red flowers. Flowers attracts lots of birds & butterflies
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDL)
	During Construction Phase: (Demand Load)	93.33 kW
	DG set as Power back-up during construction phase	93.33 kW
	During Operation phase (Connected load):	Proposed: 4762 KW
	During Operation phase (Demand load):	Proposed: 2383 KW
	Transformer:	Proposed: 3 x 1250 kVA
	DG set as Power back-up during operation phase:	Proposed: 3 x 1250 kVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Through Renewable Energy Systems:
• Maximum saving due to Solar Water Heating system: 24528 units/year
• Maximum saving due to Solar PV cells: 118560 units/year

Energy saving by non-conventional method: 2.1 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of LED for Lighting	4.0
2	Use of LED for Stair-case	0.1

3	Use of BEE 5-star certified appliance for normal power	0.37
4	Use of energy star rated Computers / Equipments for Computer Power	0.29
5	Use of BEE Certified Motors for AHU Load	2.45
6	Use of High Cop Chillers with VFD for HVAC chillers	10.29
7	Use of EFF-1 Motors, Variables Speed Pumping System for HVAC Pumping	2.58
8	Use of BEE Certified Motors for Medical Equipment & bed head panel	1.59
9	Use of Group controls and Variable speed drives for Lifts	0.42
10	Use of Daylight based controls + LED light fitting for Street Light	0.06
11	Use of Daylight based controls + LED light fitting for landscape lighting	0.17
12	Use of High Efficiency heat pumps for Hot water system	0.18
13	Use of CO sensors and VFD Fans for Ventilation & exhaust system	0.2
14	Maximum saving due to Solar Water Heating system	1.77
15	Maximum saving due to Solar PV cells	0.36

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	STP – MBBR Technology (300 KLD)	Additional of STP Capacity – MBBR Technology (150 KLD)
Biodegradable Waste	Treatment by “Nisargruna” Bio-gas Plant (500 Kg/day)	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	312
	O & M cost:	10.5

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Debris / Topsoil management	-	35
2	Site sanitation	Toilets for labour + Drinking water + First aid arrangement	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	Civil and Equipment Cost along with Operation and Maintenance Cost	300	8
2	Solid Waste Management	Nisargruna” Bio-gas Plant	12	2.5

3	Rain Water Harvesting	Rain water Harvesting Tank	20	1
4	Green belt development	Gardening	76.81	52.92
5	Energy Conservation + Solar Panel	Use of solar energy	153	6.89
6	Environmental Monitoring	Ambient Air, Water, Noise, Soil Monitoring	1	1.6

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	10955.45 sq. m.
	Area per car:	12.5 sq. m.
	Area per car:	12.5 sq. m.
	Number of 2-Wheelers as approved by competent authority:	175 (Existing)
	Number of 4-Wheelers as approved by competent authority:	325 (Existing) + 182 (Proposed) = 500
	Public Transport:	NA
	Width of all Internal roads (m):	6 m, 9 m & 11 m
	CRZ/ RRZ clearance obtain, if any:	NA

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Representative of PP Dr. Navin Khatri was present during the meeting along with environmental consultant M/s. Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd.

PP informed that, the project under consideration is *proposed new building construction within ACTREC campus*. PP further stated that, the total plot area of the project is 240000.07 Sq.mt. having total construction area 1,10,712.03 Sq.mt (FSI - Existing (68243.38) + Proposed (25007.1) = 93250.48 sq.mt +NON FSI- Existing (14403.68) + Proposed (3057.86) = 17461.54 sq.mt) and the building configuration is as follow-project.

Building Name & number	Number of floors	Height (Mtrs)
Compound Wall Project House (Prior 2006)	G	4.2
Compound Wall & Guard House (Prior 2006)	G	4.2
Staff Quraters - Type II - B & III-C (64 flats) (Prior 2006)	G+3	15
CRI (Cancer Research Institute) (Prior 2006)	G+3	15
Animal House & Service Block (Prior 2006)	G+1	7.8
Ward Block (Prior 2006)	G+2	11.4
CRC (Clinical Research Centre) (Prior 2006)	G+3	15
Vishramgrih (Prior 2006)	G+4	18.6
Faculty Building (Prior 2006)	G+1	7.8
Addition Alteration in Staff Quarter Building II – B (Prior 2006)	G+3	15
Radiological research Unit (RRU) & Administration Block (EC received 2015) Q	B+G+7 UF	35.90
Centre for cancer epidemiology – CCE (EC received 2015)	G+7	28.80
Archive & Record Storage (EC received 2015)	G+4	18.00
Hematolymphoid Block (EC received 2016)	G+7	24.00
Utility Block (EC received 2016)	G	4.50
Medical Gas Manifold (EC received 2016)	G	4.50
Electrical Sub-station (EC received 2016)	G	3.00
Entrance Structure (EC received 2016)	G	4.50
Bio Bank (EC received 2017)	G	5.4
Hardon Block (EC received 2018)	G+ 1 UF	8.20
Aasha Niwas (EC received 2018)	Stilt + Ground + 11 UF	48.75
Proposed Shantilal Shanghvi Pediatric Hematolymphoid Cancer Centre	G+10	45

It is noted that, Project has received Environmental clearance vide letter dated 12.1.2018.

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

Committee noted that the, total potential of built up area is 240000.07 Sq.mt. & also noted that on the plot 6 ECs has been granted from time to time. As told by PP the proposal under consideration is of 1,10,712.03 Sq.mt which is not the full potential. In absence of proposal as to how total plot will be developed having been not submitted by the PP, it is not possible to apprise the part proposal. Considering this, committee asked PP to come up with full potential of the plot & accordingly change the application for 8a (B1) category of EIA Notification, 2006, ***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 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Environment Clearance for Panch Ratna SRA Co-operative Housing Society (under SRA Scheme) at Plot bearing C.T.S. No. 1B/7, 1/B/7/1 to 4 & 8, 8/1 to 8, 9A, 9A/1 to 12, 1/B / 10/ B of village Dindoshi, Panch Bavadi, Goregaon (E), and CTS No.581/A/18, 581/A/18/1 to 9, 581/A/19, 581A/19/1 to 23 Village Malad (E) Panch Bavadi Goregoan (E) Mumbai 400 063 by M/s. Shree Swami Samarth Developers

Is a Violation Case: No

1.Name of Project	Panch Ratna SRA Co-operative Housing Society (under SRA Scheme)
2.Type of institution	Private
3.Name of Project Proponent	M/s. Shree Swami Samarth Developers
4.Name of Consultant	M/s. Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	SRA Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot bearing C.T.S. No. 1B/7, 1/B/7/1 to 4 & 8, 8/1 to 8, 9A, 9A/1 to 12, 1/B / 10/ B of village Dindoshi, Panch Bavadi, Goregaon (E), and CTS No.581/A/18, 581/A/18/1 to 9, 581/A/19, 581A/19/1 to 23 Village Malad (E) Panch Bavadi Goregoan (E) Mumbai 400 063.
9.Taluka	Borivali
10.Village	Dindoshi
Correspondence Name:	M/s. Shree Swami Samarth Developers
Room Number:	1/3
Floor:	First
Building Name:	Krishnai
Road/Street Name:	Off M. G. Road
Locality:	Goregaon (W)
City:	Mumbai-400062
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: SRA/ENG/2920/PS/MCGM&STGL/AP for rehab building & SRA/ENG/3379/PS/MCGM & STGL/AP for Sale building
	Approved Built-up Area: 27985.73
13.Note on the initiated work (If applicable)	Ground floor slab for rehab building has been completed
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	SRA/ENG/2045/PS/MCGM-STGL/LOI dtd 23.09.2016
15.Total Plot Area (sq. m.)	13438.40 sq.m
16.Deductions	3825.86 sq.m
17.Net Plot area	9612.54 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 62258.59 sq.m
	b) Non FSI area (sq. m.): 42716.40 sq.m
	c) Total BUA area (sq. m.): 104974.99
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 19009.43
	Approved Non FSI area (sq. m.): 8976.30
	Date of Approval: 01-10-2016
19.Total ground coverage (m2)	3807.76 sq.m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	39.61 %

21.Estimated cost of the project	3370000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Bldg. 1	L.G. 1&2 + Gr.+ 1st to 23rd floors	68.40 m
2	Sale Bldg. Wing A	Park lvl 1&2 + Part Podium/ 1st to 36th floor	112.45 m
3	Sale Bldg. Wing B	Park lvl 1&2 + Part Podium + 2nd to 37th floor	115.40 m
4	Sale Bldg. Wing C	Park lvl 1&2 + Part Podium + 2nd to 38th floor	118.35 m
5	Sale Bldg. 2	LG + Gr + 23rd floor	69.60 m
6	Commercial Bldg.	Gr + 1st to 8th floor	29.95 m

23.Number of tenants and shops	Rehab: Residential: 502 (247+255) PAP: 65 (23+42) Commercial:25 (16+4+5) R/C: 15 (12+3) Community hall: 1 BWS: 12 Library: 1 Skill dept. center: 2 Sale: Residential: 668
24.Number of expected residents / users	5651 nos.
25.Tenant density per hectare	650 Tenants / hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 m wide D.P road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9.00 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	NA	NA	NA	NA

32.Total Water Requirement

Dry season:	**Source of water**	MCGM & Recycled Water
	Fresh water (CMD):	502
	Recycled water - Flushing (CMD):	253
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	760
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	150
	Excess treated water	355
Wet season:	**Source of water**	MCGM & Recycled Water
	Fresh water (CMD):	502
	Recycled water - Flushing (CMD):	253
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	755
	Fire fighting - Underground water tank(CMD):	450
	Fire fighting - Overhead water tank(CMD):	150
	Excess treated water	360
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 m - 5 m
	Size and no of RWH tank(s) and Quantity:	165 cum capacity of 5 tanks.
	Location of the RWH tank(s):	below ground level
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 16.00 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 2.00 Lakh/annum
	Details of UGT tanks if any :	Domestic Tank: 502 cum Flushing tank: 252 cum Fire tank: 450 cum
35.Storm water drainage	**Natural water drainage pattern:**	West to East and North to South
	Quantity of storm water:	0.2 cum/sec
	Size of SWD:	0.45 m X 0.30 m
Sewage and Waste water	**Sewage generation in KLD:**	697 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	3 STP (140 +150 + 400) = 690 KLD
	Location & area of the STP:	below ground level
	Budgetary allocation (Capital cost):	Rs. 91.00 Lakhs
	Budgetary allocation (O & M cost):	Rs. 23.00 Lakhs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Recyclable waste will be generated like empty cement bags & cans, scrap metal etc. Debris & construction waste shall be generated.
	Disposal of the construction waste debris:	Recyclable waste like empty cement bags & empty paint cans shall be handed over to local vendors. Broken tiles shall be used for china mosaic of terrace. Scrap metals shall be sold to recyclers.
Waste generation in the operation Phase:	**Dry waste:**	1114 kg/day
	Wet waste:	1520 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	28 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to Local Recyclers.
	Wet waste:	Will be processed in the OWC manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Located at Ground Level
	Area for the storage of waste & other material:	Total Area: 139 sq.m
	Area for machinery:	Area including in area of storage waste & other material
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 19.00 lakhs
	O & M cost:	Rs. 3.00 Lakhs/annum

37.Effluent Charecterestics

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

Amount of effluent generation (CMD):	NA
Capacity of the ETP:	NA
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	NA	NA	NA	NA

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

43.Green Belt Development	**Total RG area :**	771.90 sq.m
	No of trees to be cut :	10 nos.
	Number of trees to be planted :	39 nos.
	List of proposed native trees :	as listed below
	Timeline for completion of plantation :	at the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Neolamarckia cadamba	Kadamb	3	Evergreen tree
2	Alstonia scholaris	Satvin	3	Evergreen tree
3	Peltophorum pterocarpum	Yellow Gulmohar	5	Flowering tree
4	Mimusops elengi	Bakul	8	Evergreen tree
5	Prunus dulcis	Almond tree	4	Shady & fruiting tree
6	Magnolia champaca	Sonchafa	8	Flowering tree
7	Azadirachta indica	Neem	4	Medicinal tree
8	Bauhinia purpuria	Purple Orchid Tree	4	Flowering tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Adani Power
	During Construction Phase: (Demand Load)	50 to100 KW
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	13890 kW
	During Operation phase (Demand load):	3172 kW
	Transformer:	1000 x 4 kVA
	DG set as Power back-up during operation phase:	500 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

USE OF LED
USE OF SOLAR PV
USE OF VFD

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving	14 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 30 Lakhs
	O & M cost:	Rs. 2 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water Sprinkling, Green Belt Development, Covered storage area	4.0
2	Noise	Noise Barricades and Green Belt Developments	3.00
3	Water	Modular STP, Drainage with sedimentation tanks	3.00

4	EHS	Site Sanitation & Health Care	3.00
5	Environment Monitoring	Environment Monitoring	3.6

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	RWH	16.00	2.00
2	Water Environment	STP	91.00	23.00
3	Solid waste Management	OWC	19.00	3.00
4	Energy saving	Solar	30.00	2.00
5	Land Environment	Landscaping	8.00	2.00

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
NA	NA	NA	NA	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	3 nos. of entry & exit
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	Part Podium
	Total Parking area:	2230 sq.m.
	Area per car:	4.12 sq. m.
	Area per car:	4.12 sq. m.
	Number of 2-Wheelers as approved by competent authority:	53 nos.
	Number of 4-Wheelers as approved by competent authority:	541 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	Minimum 6.00 m wide internal road

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	ESZ of Sanjay Gandhi National Park 0.73 km from project boundary, ESZ of Flamingo 0.63 km from project boundary
	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 Mr Mittle was present during the meeting along with environmental consultant. M/s. Enviro Analysts and Engineers Pvt. Ltd.

PP informed that, the project under consideration is proposed new SRA Scheme project. PP further stated that, the total plot area of the project is 13438.40 Sq.mt. having total construction area 104974.99 Sq.mt (FSI - 62258.59 sq.mt +NON FSI- 42716.40 sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Rehab Bldg. 1	L.G. 1&2 + Gr.+ 1st to 23rd floors	68.40 m
Sale Bldg. Wing A	Park lvl 1&2 + Part Podium/ 1st to 36th floor	112.45 m
Sale Bldg. Wing B	Park lvl 1&2 + Part Podium + 2nd to 37th floor	115.40 m
Sale Bldg. Wing C	Park lvl 1&2 + Part Podium + 2nd to 38th floor	118.35 m
Sale Bldg. 2	LG + Gr + 23rd floor	69.60 m
Commercial Bldg.	Gr + 1st to 8th floor	29.95 m

It is noted that the project earlier considered in 68th SEAC-2 Meeting held on 07-09-2018 & deferred as PP was absent.

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

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 informed that, there is change in CS regarding nomenclature of the building. PP to revise the online CS accordingly.
2) PP to submit & upload the copy of acknowledgement for plan submitted to SRA.
3) PP to submit the revised architect certificate with name & registration number of architect.
4) PP to submit the, status regarding the natural nalla in project site.
5) PP to submit the CC for rehab building which was under consideration.
6) PP to carry out the survey of rehab tenements with respect to the having 2, 4 wheeler vehicles.
7) PP to submit the remarks of the sewer drain.
8) PP to provide the separate OWC for the commercial building & OWC of rehab building should be earmark.
9) PP to abide all conditions mentioned in the SWD NoC dated 26/12/2016.
10) PP to submit the revised RG calculations including RG proposed on the podium
11) Committee noted that the RG for rehab & sale is common, as agree by PP, PP to ensure that RG should be accessible to rehab also.
12) PP to provide clear circulatory fire tender movement for commercial building.
13) PP to provide swept path analysis for rehab building.
14) PP to submit CER of 0.75 % 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 decided to defer the proposal.Kindly find SEAC decision above.

Agenda of 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Expansion and Amendment in Environment Clearance for Integrated Township Project at village Usarghar and Sandap, Dist- Thane

Is a Violation Case: No

1.Name of Project	Integrated Township Project
2.Type of institution	Private
3.Name of Project Proponent	M/s. Horizon Projects Pvt. Ltd.
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	Township Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion and Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Received Environmental Clearance vide No. SEAC-2013/CR-419/TC-1 dated 13.02.2017
8.Location of the project	Village - Usarghar, S. no. 17/1, 17/2, 17/3/A, 17/3/B, 17/4, 17/5, 36/1/A, 36/1/B, 37/1, 37/2, 38/1, 38/2, 38/3, 38/4, 70/9, 70/10, 70/11, 71/1, 71/2, 71/3, 71/4, 71/8, 91/1, 91/2, 91/3, 91/4, 91/5, 92/1, 92/2, 93P, 103/2, 103/6/A, 103/6/B, 103/7, 103/8, 103/9, 103/10, 103/11, 103/12, 103/13, 103/14/B, 103/15, 103/16, 103/17, 103/18, 107/1,107/2/A,107/2/B, 107/3, 107/4, 107/5, 107/6, 107/7, 107/8, 107/9, 107/10, 107/11, 107/12, 107/13, 107/14, 107/15, 107/16, 107/17, 107/18, 107/19, 107/20, 108/1, 108/2, 108/3, 109P, 134/1, 134/2, Village-Sandap, S. No. 2, 21P, Taluka –Kalyan, Dist- Thane in Proposed Growth Center of Kalyan
9.Taluka	Kalyan
10.Village	Usarghar and Sandap
Correspondence Name:	M/s. Horizon Projects Pvt. Ltd.
Room Number:	--
Floor:	5th floor
Building Name:	Runwal & Omkar Esquare
Road/Street Name:	Off Eastern Express Highway
Locality:	Opp. Sion (E), Mumbai – 400 055
City:	Sion, Mumbai – 400 055
11.Whether in Corporation / Municipal / other area	Special Planning Authority: Mumbai Metropolitan Region Development Authority (MMRDA) Municipal Corporation: Kalyan Dombivali Municipal Corporation (K.D.M.C.)
12.IOD/IOA/Concession/Plan Approval Number	Received Layout approval (No. SROT/Growth Centre/2401/BP/ITP- Layout/Usarghar – Sandap-01/670/2018) dated 23.04.2018
	IOD/IOA/Concession/Plan Approval Number: Received Layout approval (No. SROT/Growth Centre/2401/BP/ITP- Layout/Usarghar – Sandap-01/670/2018) dated 23.04.2018
	Approved Built-up Area: 843853.59
13.Note on the initiated work (If applicable)	Received Environmental Clearance from SEIAA (dated 13th February, 2017) vide no. SEAC-2013/C.R.419/TC-1 Received Consent to Establish from MPCB dated 12.09.2018 Total constructed work (FSI+ Non FSI): 48048.13 Sq. mt.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received Locational Clearance (LC) from Urban Development Department, Govt. of Maharashtra on date 21.08.2017 ; Received Letter of Intent (LOI) from MMRDA on date 23.04.2018
15.Total Plot Area (sq. m.)	Area as per 7/12 extract: 5, 36,430.00 Sq. mt. , Area as per proposed Subdivision: 4, 96,153.00 Sq. mt. , Area of plot as per trangulation: 4,97,543.27 Sq. mt.
16.Deductions	31,732.28 Sq. mt.
17.Net Plot area	4,64,420.72 Sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 8,43,853.91 (Including Social Housing Component)
	b) Non FSI area (sq. m.): 4,99,491.13
	c) Total BUA area (sq. m.): 1343345.04
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 8, 43,853.95 (Including Social Housing Component)
	Approved Non FSI area (sq. m.): Details shall be submitted
	Date of Approval: 23-04-2018

19.Total ground coverage (m2)	1,39,900 Sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	30.12 % (On Net Plot area)
21.Estimated cost of the project	53962100000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Phase 1	--	--
2	Residential: Sale 12 Buildings	Lower Stilt + Upper Stilt + 2 level podia + 1st to 23rd Floors	77.60
3	Residential: Sale 17 Buildings	Lower Stilt + Upper Stilt + 2 level podia + 1st to 26th Floors	86.30
4	Educational Building (School)	Stilt + 6 Floors	25.80
5	Economically Weaker Section (EWS) 4 Buildings	Ground + 7 Floors	23.65
6	Mall	2 Basements + Ground + 6 Floors	29.85
7	Sports Complex	Ground + 1 Floor	8.00
8	Phase 2	--	--
9	Residential: Sale 29 Buildings	Stilt + 1st to 27th Floors	81.95
10	Residential: Sale 8 Buildings	Lower Stilt + Upper stilt + P1 (Parking floor) + P2 (Podium Floor) + 1st to 27th Floor	89.20
11	EWS 7 Buildings	Ground + 7 Floors	23.65
12	Shopping Complex (Town Hall & Auditorium)	Ground + 15 Floors	67.65
13	Bus Station	Stilt + 3 Floors	17.25
14	Phase 3	--	--
15	Residential: Sale 22 Buildings	Stilt + 1st to 27th Floors	81.95
16	EWS: 4 Buildings	Ground + 7 Floors	23.65
17	Business Office	Ground + 8 Floors	27.60
18	Multi-Level Car Parking (MLCP)	Ground + 8 Floors	26.25
19	Market	Ground + 1 Floor	8.85
20	Health Care	Ground + 3 Floors	14.85
21	Fire Brigade	Stilt + 3 Floors	17.25
22	Police Station	Ground + 2 Floors	11.25

23.Number of tenants and shops	Phase 1 = Total Sale Flats: 3252 Nos., Total EWS Flats: 448 Nos. , School-Classrooms: 115 Nos., Mall , Sports Complex Phase 2 = Total Sale Flats: 4712 Nos., Total EWS Flats: 784 Nos., Shopping Complex (Town Hall & Auditorium), Bus Station Phase 3 = Total Sale Flats: 2828 Nos., Total EWS Flats: 448 Nos., Offices, Market, MLCP, Health Care center: 50 nos. of Beds, Fire Brigade, Police Station
24.Number of expected residents / users	174045 nos. (Including floating population)
25.Tenant density per hectare	269/hectors
26.Height of the building(s)	

27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.0 m wide Diva Manpada road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 mt.
29.Existing structure (s) if any	Part construction completed on site as per EC received.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MIDC/ Tanker water for Swimming pool make up
	Fresh water (CMD):	6023 KLD
	Recycled water - Flushing (CMD):	Flushing: 3880 KLD + Cooling tower makeup: 670 KLD
	Recycled water - Gardening (CMD):	493 KLD
	Swimming pool make up (Cum):	21 KLD
	Total Water Requirement (CMD) :	11087 KLD
	Fire fighting - Underground water tank(CMD):	Details shall be submitted
	Fire fighting - Overhead water tank(CMD):	Details shall be submitted
	Excess treated water	2786 KLD

Wet season:	**Source of water**	MIDC/ Tanker water for Swimming pool make up/ Partly by RWH tank
	Fresh water (CMD):	6023 KLD
	Recycled water - Flushing (CMD):	Flushing: 3880 KLD + Cooling tower makeup: 670 KLD
	Recycled water - Gardening (CMD):	Not Applicable
	Swimming pool make up (Cum):	21 KLD
	Total Water Requirement (CMD) :	10594 KLD
	Fire fighting - Underground water tank(CMD):	Details shall be submitted
	Fire fighting - Overhead water tank(CMD):	Details shall be submitted
	Excess treated water	3279 KLD
Details of Swimming pool (If any)	Swimming pool volume: 1500 m3. Swimming pool make up water requirement: 21 KL.	

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	--	--	--	--	--	--	--	--	--

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	8.2 m. to 8.5 m. below ground
	Size and no of RWH tank(s) and Quantity:	Shall be submitted
	Location of the RWH tank(s):	Shall be submitted
	Quantity of recharge pits:	Shall be submitted
	Size of recharge pits :	Shall be submitted
	Budgetary allocation (Capital cost) :	Shall be submitted
	Budgetary allocation (O & M cost) :	Shall be submitted
	Details of UGT tanks if any :	Shall be submitted

35.Storm water drainage	**Natural water drainage pattern:**	Shall be submitted
	Quantity of storm water:	Shall be submitted
	Size of SWD:	Shall be submitted
Sewage and Waste water	**Sewage generation in KLD:**	8699 KLD
	STP technology:	Shall be submitted
	Capacity of STP (CMD):	Shall be submitted
	Location & area of the STP:	Shall be submitted
	Budgetary allocation (Capital cost):	Shall be submitted
	Budgetary allocation (O & M cost):	Shall be submitted

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Shall be submitted
	Disposal of the construction waste debris:	Construction waste shall be partly reused/recycled and partly disposed to the authorized site with the permission of local authority.
Waste generation in the operation Phase:	**Dry waste:**	23318 kg/day
	Wet waste:	15106 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	19 kg/day
	STP Sludge (Dry sludge):	1305 kg/day
	Others if any:	E-waste: 463 kg/month
Mode of Disposal of waste:	**Dry waste:**	To Authorized recyclers
	Wet waste:	Treatment on site
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Bio-medical waste will be handled and disposed as per Bio-Medical Waste Management Rules, 2016
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	E-waste: To Authorized recyclers
Area requirement:	**Location(s):**	Shall be submitted
	Area for the storage of waste & other material:	Shall be submitted
	Area for machinery:	Shall be submitted
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Shall be submitted
	O & M cost:	Shall be submitted

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

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 :**	Garden - Park: 24,202.58 Sq. mt. , PG: 46,257.36 Sq. mt.
	No of trees to be cut :	Shall be submitted
	Number of trees to be planted :	Shall be submitted
	List of proposed native trees :	Shall be submitted
	Timeline for completion of plantation :	At the time of 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	--	--	--	--
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 :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	Shall be submitted
	DG set as Power back-up during construction phase	Shall be submitted
	During Operation phase (Connected load):	Shall be submitted
	During Operation phase (Demand load):	Shall be submitted
	Transformer:	Shall be submitted
	DG set as Power back-up during operation phase:	Shall be submitted
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Shall be submitted

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Shall be submitted	Shall be submitted

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage Treatment Plant (STP)
Solid waste	Not applicable	Treatment on site

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Shall be Submitted
	O & M cost:	Shall be Submitted

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	--	--	--	--

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	12 nos. of entry/ exits
Parking details:	**Number and area of basement:**	Details as mentioned in Project proposal at Sr. no. 24
	Number and area of podia:	Details as mentioned in Project proposal at Sr. no. 24
	Total Parking area:	Shall be submitted
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	Required: 22302 nos.; Provision: 22302 nos.
	Number of 4-Wheelers as approved by competent authority:	Required: 12090 nos.; Provision: 12090 nos.
	Public Transport:	Transport vehicles: 69 nos., Loading vehicles: 92 nos., Bus parking: 25 nos., Ambulance: 1 no.
	Width of all Internal roads (m):	Shall be submitted
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 (b) B1
	Court cases pending if any	No

	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 Ms Pallavi Matkari was present during the meeting along with environmental consultant M/s. Ultra-Tech.

PP informed that, the project under consideration is proposed township expansion amended in EC project. PP further stated that, the total plot area of the project is 4,97,543.27 Sq.mt. having total construction area 1343345.04 Sq.mt (FSI - 8,43,853.91 sq.mt +NON FSI- 4,99,491.13 sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Phase 1	--	--
Residential: Sale 12 Buildings	Lower Stilt + Upper Stilt + 2 level podia + 1st to 23rd Floors	77.60
Residential: Sale 17 Buildings	Lower Stilt + Upper Stilt + 2 level podia + 1st to 26th Floors	86.30
Educational Building (School)	Stilt + 6 Floors	25.80
Economically Weaker Section (EWS) 4 Buildings	Ground + 7 Floors	23.65
Mall 2	Basements + Ground + 6 Floors	29.85
Sports Complex	Ground + 1 Floor	8.00
Phase 2	--	--
Residential: Sale 29 Buildings	Stilt + 1st to 27th Floors	81.95
Residential: Sale 8 Buildings	Lower Stilt + Upper stilt + P1 (Parking floor) + P2 (Podium Floor) + 1st to 27th Floor	89.20
EWS 7	Buildings Ground + 7 Floors	23.65
Shopping Complex (Town Hall & Auditorium)	Ground + 15 Floors	67.65
Bus Station	Stilt + 3 Floors	17.25
Phase 3	--	--
Residential: Sale 22 Buildings	Stilt + 1st to 27th Floors	81.95
EWS: 4	Buildings Ground + 7 Floors	23.65
Business Office	Ground + 8 Floors	27.60
Multi-Level Car Parking (MLCP)	Ground + 8 Floors	26.25
Market	Ground + 1 Floor	8.85
Health Care	Ground + 3 Floors	14.85
Fire Brigade	Stilt + 3 Floors	17.25
Police Station	Ground + 2 Floors	11.25

It is noted that, Project has received Environmental clearance vide letter dated 13.02.2017.

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

DECISION OF SEAC

After discussion, Committee approved the ToR with following observations & additions, which is valid upto 14/8/2022. EIA will be apprised as & when submitted. Meanwhile PP should comply following points.

Specific Conditions by SEAC:

1) Committee noted that, PP have circulated the revised CS,PP to revised the same online also.
2) PP to upload acknowledgement regarding plan submitted to local planning authority.
3) PP to submit the dated Architect certificate addressed to committee regarding building-wise construction done on site as per earlier EC.
4) Committee noted that the total plot area for earlier EC was 5,70,700.00 Sq.mt & now under consideration is 5,36,430.00 Sq.mt with increase in total built up area. PP to submit the explanatory note regarding the decrease in total plot area.
5) PP to submit all NoC/approvals as mentioned in ITP Notification dated issued by Urban Development Department, Government of Maharashtra.
6) PP to submit the geotechnical & geological study report.
7) PP to submit & upload the copy of location clearance.
8) PP to ensure that the amenities like health, education, market, school etc should be provided proportionately in all phases.
9) PP to submit the contour of the site specifying the area with slop more than 1-1.5.
10) PP to submit the detail calculations for "Social Housing" ITP Notification issued by Urban Development Department, Government of Maharashtra.
11) PP to submit acknowledgement of submission of the master plan layout along with plan & attachments.
12) PP to submit comparative statement regarding assessment of Environment Impact as per earlier EIA, Actual and impact due to proposed expansion.
13) PP to ensure ECBC norms are complied with.
14) PP to submit NoC for drinking water from MJP.
15) PP to submit the topography of the site along with earmark the major nalla artery present on site.
16) PP to ensure that school building should be as per RTE Act.
17) PP to submit the remark of sewerage network, water supply, storm water drain & NOC for the same from local planning authority.
18) PP to submit the detail biodiversity chapter including marine ecology in EIA considering the eco-sensitivity of the site.
19) PP to submit the DP remarks.
20) PP to submit Contour and slope analysis super imposed with storm water drain, sewer line map in the project and 500 mtr around the project.
21) Arterial roads should be provided with Foothpath, duct for utility services like telecom, electricity etc should be given along the length & across the road at the interval of 50 m.
22) PP to provide cycling track along with road.
23) PP to submit the disposal plan of biomedical & E- waste.
24) PP to submit the biomethanation plant design & plan
25) PP to submit HRC NoC.
26) PP to submit & upload wind analysis, shadow analysis, traffic analysis, light and ventilation analysis and measures to reduce heat island effect.
27) PP to ensure that maximum treated water should be recycled.
28) PP to submit the detail sewerage plan & STP calculations.
29) PP to submit demolition & debris disposal /waste management plan.
30) PP to submit project specific DMP considering the STP failure & flooding as one of the likely disaster point.
31) PP to ensure that RG required is as per the norms and should be on Mother Earth.
32) PP to submit & upload the design & cross section of STPs indicating minimum 40% area open to sky for adequate ventilation.
33) PP to submit the fire tender plan.
34) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project or Environment Department may direct PP to undertake CER work in identified area.
35) PP to also refer standard ToR published by MoEF vide order dated 10/04/15 in addition to above

FINAL RECOMMENDATION

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

Agenda of 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Proposed Amendment & Expansion in EC for Commercial project at Plot No 130 of Worli Scheme No 52, CS No 1618 of Lower Parel division, Mumbai by Whispering Heights Real Estate Pvt. Ltd

Is a Violation Case: No

1.Name of Project	M/s Whispering Heights Real Estate Pvt. Ltd
2.Type of institution	Private
3.Name of Project Proponent	M/s Whispering Heights Real Estate Pvt. Ltd
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., Dr. D. A. Patil,
5.Type of project	Commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	Proposed Amendment & Expansion in EC for Commercial project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Obtained EC vide letter No. SSIAA-EC-000000397 dated: 1st September 2018 for total construction area 92,000 m2 having FSI area 38,870.17 m2 and Non-FSI area is 53,129.83 m2
8.Location of the project	Plot No 130 of Worli Scheme No 52, CS No 1618 of Lower Parel division, Mumbai
9.Taluka	Mumbai
10.Village	Mumbai
Correspondence Name:	M/s Whispering Heights Real Estate Pvt. Ltd
Room Number:	Plot No, C-30, Block G
Floor:	-
Building Name:	Bandra Kurla Complex, Bandra (E)
Road/Street Name:	-
Locality:	Bandra (E)
City:	Mumbai
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: CHE/CTY/1808/G/S/337(New) dated:01/12/2017
	Approved Built-up Area: 50261
13.Note on the initiated work (If applicable)	Excavation & Shore piling is done. Formulation work is in progress as per EC granted.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	11,996.96 m2
16.Deductions	763.07 m2
17.Net Plot area	11,232.93 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 75,537.56 m2
	b) Non FSI area (sq. m.): 86,608.44 m2
	c) Total BUA area (sq. m.): 162146
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 11,081.01 m2
	Approved Non FSI area (sq. m.): 39,180.23 m2
	Date of Approval: 01-12-2017
19.Total ground coverage (m2)	6,690.82 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	56 %
21.Estimated cost of the project	12678000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1	B +G+ 1st to 8th podium + Stilt + 35th upper floor (28th typical office floors + 5 Refuge/Office floors + 2 service floor)	191.82

23.Number of tenants and shops	It is commercial project (Retails/Shop/ F & Q at ground & 1st (pt) level).
24.Number of expected residents / users	7931 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)	The project site is accessible by 27.00 m wide G.M Bhosale Marg on east side and 24.39 m wide Pandurang Budhkar Marg on North side and 12.20 m wide Ganpat Jadhav Marg on west side from project site.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9 m
29.Existing structure (s) if any	Existing structure demolished
30.Details of the demolition with disposal (If applicable)	Structure already demolished and excavation activity in progress.

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):	198 KLD
	Recycled water - Flushing (CMD):	159 KLD
	Recycled water - Gardening (CMD):	14 KLD
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	357 KLD
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	0 KLD
Wet season:	**Source of water**	MCGM + RWH
	Fresh water (CMD):	141 KLD
	Recycled water - Flushing (CMD):	159 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	357 KLD
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	14 KLD
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 to 4 m
	Size and no of RWH tank(s) and Quantity:	2 RWH Tanks with the total capacity of 175 m3
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 40 Lakh
	Budgetary allocation (O & M cost) :	Rs. 20 Lakh/year
	Details of UGT tanks if any :	UG Tanks will be provided in Basements.
35.Storm water drainage	**Natural water drainage pattern:**	The slope of the area is towards North/West/ /East side.
	Quantity of storm water:	The storm water generation 1063.00 m3/ hr
	Size of SWD:	400 mm North side, 300 mm wide West side, 500 mm wide South east side.
Sewage and Waste water	**Sewage generation in KLD:**	337 KLD
	STP technology:	Oxic Anoxic Treatment
	Capacity of STP (CMD):	Total 1 Nos of STP with the total capacity of 350 KLD.
	Location & area of the STP:	Basement Area of STP : 500 m2
	Budgetary allocation (Capital cost):	Rs. 81 Lakh
	Budgetary allocation (O & M cost):	Rs 19 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: 4708 m3
	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:**	635 kg/day
	Wet waste:	952 kg/day
	Hazardous waste:	House hold E-Waste
	Biomedical waste (If applicable):	Used oil from DG
	STP Sludge (Dry sludge):	3 KLD
	Others if any:	E-Waste: 4.9 Tonne/Year

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated and disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping.
	Hazardous waste:	Handed over to authorized recyclers
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	E-waste will be given to Authorized Vendor
Area requirement:	**Location(s):**	Basement
	Area for the storage of waste & other material:	60 m2
	Area for machinery:	29 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 26 Lakh
	O & M cost:	Rs 10 Lakh/yr

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	Total RG area Provided : 2808.23 m2
	No of trees to be cut :	86 Nos.
	Number of trees to be planted :	Trees to be planted: 258 Nos.
	List of proposed native trees :	Given below
	Timeline for completion of plantation :	Within 2 years of completion of construction activity

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Alstonia scholaris	Pangara	20	As medicinal value, Bird and insect attractive.
2	Michelia Champaca	Chafa	35	Edible, mature fruit as medicinal value, Bird and insect attractive.
3	Nyctanthes arbortristis	Parijatak	20	As medicinal value, Bird and insect attractive.
4	Lagerstroemia flosregineae	Tamhan	30	Valued for its oil and insect repellent, having medicinal value.
5	Cassia fistula	Bahava	25	As medicinal value, Bird and insect attractive.
6	Azadirachta indica	Neem	25	Shady, large tree, ball shaped flowers.
7	Millettia pinnata	Karanj	30	Small tree with small white flowers, Butterfly host plant
8	Saraca asoka	Sita Asoka	25	Fruit tree attracting birds
9	Mimusops elegni	Bakul	48	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	BEST
	During Construction Phase: (Demand Load)	500 kVA
	DG set as Power back-up during construction phase	500 kVA
	During Operation phase (Connected load):	12.16 MW
	During Operation phase (Demand load):	7.6 MW
	Transformer:	6 x 2500 KVA (4 Working + 2 Standby)
	DG set as Power back-up during operation phase:	6 x 2250 KVA (4 Working + 2 Standby)
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar PV for Hot water to Residential Buildings, Solar lighting in landscape , Open area etc.

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 46 lakh
	O & M cost:	Rs 2.3 lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	5
2	Site sanitation Facility and its maintenance	-	5
3	Potable Water Supply to Labour	-	4
4	Health Check-up & First aid	-	3
5	Solid waste management	-	3

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

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	-	81	19
2	Solar System	-	46	2.3
3	Rainwater harvesting	-	40	2
4	Solid Waste Composting plant	-	26	10
5	Landscape	-	22	2
6	Environmental Monitoring	-	-	4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site is accessible by 27.00 m wide G.M Bhosale Marg on east side and 24.39 m wide Pandurang Budhkar Marg on North side and 12.00 m wide Ganpat Jadhav Marg on west side from project site.

Parking details:	**Number and area of basement:**	1 Basement with 4363 m2 (Excluding service area)
	Number and area of podia:	8 Podium with 30,210 m2 (Excluding service area)
	Total Parking area:	Total Parking Area: 39,486.39 m2
	Area per car:	32.16 m2
	Area per car:	32.16 m2
	Number of 2-Wheelers as approved by competent authority:	285 Nos
	Number of 4-Wheelers as approved by competent authority:	1,228 Nos
	Public Transport:	6 Nos (Transport vehicle)
	Width of all Internal roads (m):	6 m Wide
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	-
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	-
	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 Nikhil Mehta was present during the meeting along with environmental consultant. M/s. Mahabal Enviro Engineers Pvt. Ltd

DECISION OF SEAC

It is noted that representative of PP not submitted the proper authority letter. PP to submit the same along with other documents like copy of company resolution etc.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Expansion and Modification of Residential Project "Bhakti Park" Located at CTS no. 1A/1, 1A/2, 1A/3, 1A/6 of Village Anik, Chembur (M-Ward), Wadala (E), Mumbai, Maharashtra

Is a Violation Case: No

1.Name of Project	Expansion and Modification of Residential Project "Bhakti Park" Located at CTS no. 1A/1, 1A/2, 1A/3, 1A/6 of Village Anik, Chembur (M-Ward), Wadala (E), Mumbai
2.Type of institution	Private
3.Name of Project Proponent	Anik Development Corporation (A division of Ajmera Realty & Infra India Limited)
4.Name of Consultant	EQMS India Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion and Modification
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, vide EC letter no. SEAC 2011/CR-26/TC-2 dated 21st March,2013
8.Location of the project	CTS no. 1A/1, 1A/2, 1A/3, 1A/6
9.Taluka	Wadala (E)
10.Village	Anik
Correspondence Name:	Sunil Shah
Room Number:	NA
Floor:	2nd
Building Name:	Citi Mall
Road/Street Name:	Link Road
Locality:	Andheri (W)
City:	Mumbai
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai, Head Quarter, Mumbai C.S.T. 400001
12.IOD/IOA/Concession/Plan Approval Number	IOD
	IOD/IOA/Concession/Plan Approval Number: CHE/ES/3635/M/W/337 (NEW)/IOD/1/New (For EWS Block)
	Approved Built-up Area: 332067
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	111732.32 sq. m.
16.Deductions	No
17.Net Plot area	111732.32 sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 166915.16
	b) Non FSI area (sq. m.): 165151.84
	c) Total BUA area (sq. m.): 332067
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 166915.16
	Approved Non FSI area (sq. m.): 165151.84
	Date of Approval: 19-03-2019
19.Total ground coverage (m2)	42324.12
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	37.88
21.Estimated cost of the project	540000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1 (1A & 1B)	B+S+G+8P+30	136.7
2	Building 2 (2A & 2B)	B+S+G+8P+34	146.5
3	Building 3 (3A & 3B)	B+S+G+2P+16	82
4	Building 4 (4A & 4B)	B+S+G+2P+16	82
5	Building 5 (5A & 5B)	B+S+G+2P+16	82
6	EWS Housing	S+G+22	69.35

23.Number of tenants and shops	1452
24.Number of expected residents / users	8712
25.Tenant density per hectare	800
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m and 20 m. (Nearest fire station is at Antop hill which is at distance of 1.5 km from the project site)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m to 12 m
29.Existing structure (s) if any	Building 1 and 2
30.Details of the demolition with disposal (If applicable)	No demolition is involved in the project

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Municipal Supply
	Fresh water (CMD):	716
	Recycled water - Flushing (CMD):	308 KLD
	Recycled water - Gardening (CMD):	60 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1084 KLD
	Fire fighting - Underground water tank(CMD):	1920 KLD
	Fire fighting - Overhead water tank(CMD):	240 KLD
	Excess treated water	394 KLD
Wet season:	**Source of water**	Municipal Supply
	Fresh water (CMD):	716
	Recycled water - Flushing (CMD):	308 KLD
	Recycled water - Gardening (CMD):	0 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1024 KLD
	Fire fighting - Underground water tank(CMD):	1920 KLD
	Fire fighting - Overhead water tank(CMD):	240 KLD
	Excess treated water	454 KLD
Details of Swimming pool (If any)	Swimming pool is not proposed	

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	601	423	1024	Not applicable	Not applicable	Not applicable	559	393	952
Gardening	57	3	60	Not applicable	Not applicable	Not applicable	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Level (May-2011)- 2.65 to 4.25 m bgl Post-monsoon Depth to Water Level (Nov.-2011)- 2.00 to 5.00 m bgl-CGWB data
	Size and no of RWH tank(s) and Quantity:	5 nos of 50 cum. each for buildings approved AS PER EARLIER EC and 1 no. of 45 cum. for proposed EWS building
	Location of the RWH tank(s):	Within the Site
	Quantity of recharge pits:	As per CGWB study carried out in 2013, ground water quality of Chembur is poor and there is heavy metal contamination in the ground water. Thus it is proposed to store the rainfall run-off for direct usage at site and is not recharged to the ground.
	Size of recharge pits :	As per CGWB study carried out in 2013, ground water quality of Chembur is poor and there is heavy metal contamination in the ground water. Thus it is proposed to store the rainfall run-off for direct usage at site and is not recharged to the ground.
	Budgetary allocation (Capital cost) :	2400000 INR
	Budgetary allocation (O & M cost) :	500000 INR
	Details of UGT tanks if any :	Block 1: Fire - 406 KLD x 1 + 214 KLDx1, Domestic - 123 KLD x1+ 140 KLD x1 Flushing : 65 KLD x 2 Rain water harvesting: 50 Cubic meter Block 2 : Fire - 200 KLD x2, Domestic - 150 KLD + 100 KLD Flushing : 78 KLD Block 3 (Proposed Block): Fire : 200 KLDx 1, Domestic - 68 KLD x1 Flushing: 34 KLD x1 Block 4 (Proposed Block) : Fire : 200 KLDx 1, Domestic - 68 KLD x1 Flushing: 34 KLD x1 Block 5 (Proposed Block): Fire : 200 KLDx 1, Domestic - 68 KLD x1 Flushing: 34 KLD x1 EWS: Fire - 75KLD x4, Domestic 50 KLDx 4 Flushing: 93 KLD
35.Storm water drainage	**Natural water drainage pattern:**	Storm water infrastructure is designed in accordance to the natural drainage pattern following the gravity
	Quantity of storm water:	92258.12 cum.
	Size of SWD:	450 mm x 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	952
	STP technology:	MBBR
	Capacity of STP (CMD):	1260 KLD
	Location & area of the STP:	430 m^2
	Budgetary allocation (Capital cost):	4160000
	Budgetary allocation (O & M cost):	216000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Solid waste will be generated during construction phase majorly consisting excavated materials, cement bags, bricks, concrete, MS rods, tiles, wood etc.
	Disposal of the construction waste debris:	Waste handling during the construction phase will be done by the site contractor whose responsibility lies with collection and storage of construction and demolition waste generated on the site. Construction debris will be stored in covered yards. Construction debris will be segregated into re-usable & discarded waste. Re-usable waste will be used within the project site to the extent possible. Discarded waste will be sent to the designated site for construction waste disposal in the area.
Waste generation in the operation Phase:	**Dry waste:**	1569 kg/day
	Wet waste:	2355 kg/day
	Hazardous waste:	Used oil from DG Set
	Biomedical waste (If applicable):	Not any
	STP Sludge (Dry sludge):	97 kg/day
	Others if any:	E-waste
Mode of Disposal of waste:	**Dry waste:**	a. Rejected fraction of the waste is collected and disposed by local agencies on daily basis and will be disposed at the locations designated by MCGM b. Recyclable waste and E-waste is sold to authorized vendors
	Wet waste:	Wet waste will be treated in the organic waste convertor to be provided at the site. Residue from OWC will be used as manure
	Hazardous waste:	Used oil from DG sets will be disposed off trough authorized vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	STP sludge will be converted to manure and will be used for landscaping within the site replacing the chemical fertilizers
	Others if any:	E-waste will be sold to authorized vendors and room will be provided for storage of e-waste
Area requirement:	**Location(s):**	Within the project boundary
	Area for the storage of waste & other material:	NA
	Area for machinery:	46.656 sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2000000
	O & M cost:	600000

37.Effluent Charecterestics

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

Amount of effluent generation (CMD):	Not applicable
Capacity of the ETP:	Not applicable
Amount of treated effluent recycled :	Not applicable
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable

Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	Not applicable

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set 1000 kVA	HSD (230 L/Hr)	1	142.7	0.33 m	500 K
2	DG Set 1000 kVA	HSD (230 L/Hr)	1	152.5	0.33 m	500 K
3	DG Set 1000 kVA	HSD (230 L/Hr)	1	88	0.33 m	500 K
4	DG Set 1000 kVA	HSD (230 L/Hr)	1	88	0.33 m	500 K
5	DG Set 1000 kVA	HSD (230 L/Hr)	1	88	0.33 m	500 K
6	DG Set 500 kVA	HSD (106 L/Hr)	1	73.85	0.24 m	500 K

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD for DG sets	Not applicable	Not applicable	Not applicable
41.Source of Fuel		Authorized Vendors		
42.Mode of Transportation of fuel to site		Will be transported in HDPE drums through roads		

43.Green Belt Development	**Total RG area :**	19889.24 sq. m.
	No of trees to be cut :	0
	Number of trees to be planted :	2100
	List of proposed native trees :	Plumeria alba, bamboo, Sirish, Washingtonia Palm, Neem, Ashoka, Papaya and Ficus sp
	Timeline for completion of plantation :	5 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	NA	NA	NA	Evergreen, native and pollution resistant species to be planted at the site
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	TATA
	During Construction Phase: (Demand Load)	125-150 kVA
	DG set as Power back-up during construction phase	125 kVA
	During Operation phase (Connected load):	26.85 MW for existing 5 buildings as per Earlier EC and 4.2 MW for proposed EWS
	During Operation phase (Demand load):	22 MW
	Transformer:	For 5 buildings- 2500 * 10 (kVA) + For EWS: 1250 * 2 (kVA)
	DG set as Power back-up during operation phase:	Total 5000 kVA for 5 buildings as per earlier EC-1000 * 5 kVA and for proposed EWS total 500 kVA= 1 * 500 kVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	HT line traverses through the boundary wall of the project site. NOC for the TATA has been obtained. No construction will be undertaken in that area.

48.Energy saving by non-conventional method:

• All Pumps and Lifts are proposed on VFD drive which results in 30% energy saving in consumption.
• Installation of the solar panels of 19 KW for EWS block
• Provision of LED lighting for common areas and internal lighting
• Green area will brings the cooling effect and will thus reduce the cooling load
• Usage of low energy embodied locally available construction material. Usage of fly ash mix cement for construction purpose. Usage of excavated soil and construction debris within the project site as filling material by resident
• Orientation of building is aligned north-south and is in accordance to the dominant wind direction which allows natural day lighting in all the rooms in all the apartment and adequate ventilation.
• Overhangs and balconies are provided on windows to control the direct sun heat

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy saving with usage of LED for common lighting	0.324% of total energy requirement
2	Energy saving with usage of LED for internal lighting	7.8% of total energy requirement
3	Solar panels	0.123% of total energy requirement
4	Energy saving with energy efficient motors and pumps and lifts	5% of total energy requirement
5	Energy saving with the efficient building material and design	5% of total energy requirement

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:**	26100000
	O & M cost:	2900000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Health & safety of Workers (PPE, safety officers etc)	PPE	4 Lacs Capital Cost + 1 Lacs Annaul Recurring Cost
2	Environmental Monitoring	Air, Soil, Water and Noise	2 Lacs Capital Cost + 2 Lacs Annaul Recurring Cost
3	Toilets & Septic Tank and Soak Pits	1 no. of Septic Tank/Soak Pit	4 Lacs Capital Cost + 1 Lacs Annaul Recurring Cost
4	Sedimentation tanks	2	3 Lacs Capital Cost + 0.5 Lacs Annaul Recurring Cost
5	Covered sheds for storage of material	2	3 Lacs Capital Cost + 0.5 Lacs Annaul Recurring Cost

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	1260 KLD	200	15
2	Landscaping & planting trees	19,889.24 sq m	15	5
3	Solid waste Management including STP sludge	3924 kg/day	20	6
4	RWH System	6 nos of RWH tanks (5 X 50 cum+1X 45 cum)	24	5
5	Environmental Monitoring*	Twice in year	2	4

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
HSD	HSD will be stored only for DG sets during operation phase	Will be done in Isolated area i HPDE drums dring operation phase	0.01	0.01	0.08	Authorized Vendors	Will be transported in HDPE drums through roads

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	There are 2 entrance at the site. movement within the site is majorly through 20 m road. Other roads are of width 9 m

Parking details:	**Number and area of basement:**	Block 1- 1 no. of Basement - 1847 sq. m., Block 2-5= 1 no. of basement for each block and area is 771 sq. m. for each block. Total Basement area = 1847+4X771 = 4931 sq m
	Number and area of podia:	Building 1: 38664.65 sq. m., Building 2: 26743.35 sq. m., Building 3-5 : 13422.33 sq. m., EWS: None
	Total Parking area:	46207.17 sq. m.
	Area per car:	For Big Car Park- 5.5 * 2.5 (m2), For Small Car park- 4.5 * 2.3 (m2)
	Area per car:	For Big Car Park- 5.5 * 2.5 (m2), For Small Car park- 4.5 * 2.3 (m2)
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	BEST bus service + Monorail at Bhakti Park
	Width of all Internal roads (m):	6 m, 9 m, 12 m & 20 m
	CRZ/ RRZ clearance obtain, if any:	Yes, CRZ Letter No.- CRZ 2012/CR 18/TC-2 dated 26.12.2012
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Gateway of India- 12.5 km, SW , Elephanta Caves-8.9 km, SE
	Category as per schedule of EIA Notification sheet	8(b) - Township and area development projects
	Court cases pending if any	No
	Other Relevant Informations	Total Built up area of the project is 332067 sq. m.
	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. Sunil Shah was present during the meeting along with environmental consultant M/s. EQMS India Pvt. Ltd.

PP informed that, the project under consideration is expansion and modification of existing housing Project. PP further stated that, the total plot area of the project is 111732.32 Sq.mt. having total construction area 332067 Sq.mt (FSI - 166915.16 sq.mt +NON FSI-165151.84 sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Building 1 (1A & 1B)	B+S+G+8P+30	136.7
Building 2 (2A & 2B)	B+S+G+8P+34	146.5
Building 3 (3A & 3B)	B+S+G+2P+16	82
Building 4 (4A & 4B)	B+S+G+2P+16	82
Building 5 (5A & 5B)	B+S+G+2P+16	82
EWS	Housing S+G+22	69.35

It is noted that, Project has received Environmental clearance vide letter dated 21st March,2013.

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

DECISION OF SEAC

PP informed that, there is change in name of company. PP to change the online CS with respect to Company name only. Committee noted that, the application under consideration is for expansion & Modification in earlier EC due to inclusion of EWS building and thereby increase in population by around 2/3rd original population and thereby increase in all environmental parameters. This require fresh ToR & fresh EIA. The total built up area of the project is 332067 Sq.mt. it comes under 8a (B1) category of EIA Notification, 2006. As the PP has newly introduces the EWS building & some modification in existing planning, the application should be of ToR. PP to submit the application for seeking ToR. Considering this, the project is deferred & ***shall be considered afresh.***

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Seeking Revised EC for Residential Project at Powai

Is a Violation Case: No

1.Name of Project	Residential project at CTS no. 101, Survey 38 (pt.), Village Tirandaz, Powai, Mumbai-400076
2.Type of institution	Private
3.Name of Project Proponent	M/s. Skyline Mansions Pvt. Ltd. Mr. Jaysinh Dave- Director
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment and Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Received Environmental Clearance (EC) from SEIAA, Maharashtra vide file no. SEIAA-EC-0000000119 dated 12.5.2017
8.Location of the project	CTS no. 101, Survey 38 (pt.) of Village Tirandaz, Powai, Mumbai, Maharashtra.
9.Taluka	Kurla
10.Village	Tirandaz, Powai
Correspondence Name:	Mr. Jaysinh Dave
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	Plot 101, Behind Hiranandani Hospital
Locality:	Powai
City:	Mumbai – 400 076
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	• Received IOD from M.C.G.M. on dt. 25.02.2019 • Applied for concession to MCGM for built-up área as per FSI – 112076.40 Sq. mt.
	IOD/IOA/Concession/Plan Approval Number: CE/1193/BPES/AS
	Approved Built-up Area: 43513.20
13.Note on the initiated work (If applicable)	Footing work is in progress as per Prior Environmental Clearance Received from SEIAA, Maharashtra vide file no. SEIAA-EC-0000000119 dated 12.5.2017.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	94206.87 Sq. mt.
16.Deductions	57005.83 Sq. mt.
17.Net Plot area	37201.04 Sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,12,076.43 Sq. mt.
	b) Non FSI area (sq. m.): 1,24,032.65 Sq. mt.
	c) Total BUA area (sq. m.): 236109.08
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 43513.20 Sq. mt.
	Approved Non FSI area (sq. m.): 69507.00 Sq. mt.
	Date of Approval: 25-02-2019
19.Total ground coverage (m2)	17476.03 Sq. mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	47%
21.Estimated cost of the project	13787600000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sale: Building 2 – Wing A to F	--	--
2	Wing A	Basement + 3 Podia + Stilt + 30 Floors	108.30
3	Wing B	Basement + 3 Podia + Stilt + 30 Floors	108.30
4	Wing C	Basement + 3 Podia + Stilt + 30 Floors	108.30
5	Wing D	Basement + 3 Podia + Stilt + 30 Floors	108.30
6	Wing E	Basement + 3 Podia + Stilt + 30 Floors	108.30
7	Wing F	Basement + 3 Podia + Stilt + 30 Floors	108.30
8	Club House 1	Ground + 1 Floor	8.00
9	Club House 2	Ground + 1 Floor	8.00
10	Building 3	Basement + Ground + 2 podia + 37 Floors	109.05

23.Number of tenants and shops	1505 Nos.
24.Number of expected residents / users	7797 nos.
25.Tenant density per hectare	405/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 mt. wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9.00 mt.
29.Existing structure (s) if any	Temporary Structure is present on site which will be demolished
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	M.C.G.M.
	Fresh water (CMD):	701 KLD
	Recycled water - Flushing (CMD):	350 KLD
	Recycled water - Gardening (CMD):	66 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1117 KLD
	Fire fighting - Underground water tank(CMD):	Building No. 2 : 3 tanks of total capacity 600 KL Building No. 3: 200 KL
	Fire fighting - Overhead water tank(CMD):	Building No. 2 : 50 KL for each wing Building No. 3: 50 KL
	Excess treated water	404 KLD
Wet season:	**Source of water**	M.C.G.M./ Partly by RWH tank
	Fresh water (CMD):	701 KLD
	Recycled water - Flushing (CMD):	350 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1051 KLD
	Fire fighting - Underground water tank(CMD):	Building No. 2 : 3 tanks of total capacity 600 KL Building No. 3: 200 KL
	Fire fighting - Overhead water tank(CMD):	Building No. 2 : 50 KL for each wing Building No. 3: 50 KL
	Excess treated water	470 KLD
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6.00 mt. to 7.50 mt. below ground level
	Size and no of RWH tank(s) and Quantity:	Building No. 2: 2 nos. of RWH tanks of total capacity 220 KL, Building No. 3: 1 no. of RWH tanks of capacity 36 KL
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	Building No. 2: 18 Nos. of Recharging Pits with Grease cum Desilting Chamber, Building No. 3 : 2 Nos. of Recharging Pits with Grease cum Desilting Chamber
	Size of recharge pits :	Building No. 2 & 3 : 3.0 mt. X 3.0 mt. X 4.0 mt. Depth
	Budgetary allocation (Capital cost) :	RWH Tank: Rs. 34.60 Lacs and Recharge Pits: 60.00 lacs
	Budgetary allocation (O & M cost) :	RWH Tank: Rs. 1.45 Lacs ; Recharge Pits: 3.00 lacs
	Details of UGT tanks if any :	Location of UG tanks: Basement
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged in to the external drain.
	Quantity of storm water:	Shall be submitted
	Size of SWD:	Carrying capacity of existing internal drain on site: 600 mm X 600 mm Slope 1:400 (as per SWD NOC)
Sewage and Waste water	**Sewage generation in KLD:**	911 KLD
	STP technology:	Moving Bed Bio Reactor (MBBR)
	Capacity of STP (CMD):	Building No. 2: 2 STPs of capacity 450 KL and 350 KL, Building No. 3: STP of capacity 175 KL
	Location & area of the STP:	Building No. 2: Basement Level (700 Sq. mt.), Building No. 3: Basement Level (125 Sq. mt.)
	Budgetary allocation (Capital cost):	Rs. 243.72 lacs
	Budgetary allocation (O & M cost):	Rs. 53.55 lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated material shall be partly reused for backfilling on site and remaining shall be disposed to the authorized sites with permission from M.C.G.M.
	Disposal of the construction waste debris:	Construction waste shall be partly reused/ recycled and partly disposed to the authorized site with the permission from M.C.G.M.
Waste generation in the operation Phase:	**Dry waste:**	2104 Kg/day
	Wet waste:	1403 Kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	137 Kg/day
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Shall be Handed over to Authorized recyclers
	Wet waste:	Treatment in Organic Waste Convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	104 Sq. mt.
	Area for machinery:	36 Sq. mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 45.00 lacs
	O & M cost:	Rs. 1.14 lacs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

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 :**	RG area on Ground: 8784.58 Sq. mt., RG on Podium: 1822.25 Sq. mt.
	No of trees to be cut :	No existing trees on site
	Number of trees to be planted :	672 nos.
	List of proposed native trees :	As mentioned below
	Timeline for completion of plantation :	Before completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azardirachta indica	Neem	67	Native, Evergreen, controls soil erosion,
2	Alstonia scholaris	Satwin	48	Evergreen, medicinal plant
3	Anthocephalus kadamba	Kadamb	38	Timber yielding plant, ornamental plant
4	Cassia fistula	Golden shower tree	80	Drought tolerant species, ornamental, flowering plant
5	Largerstroemia indica	Tamhan	92	Shady tree attracts birds/butterflies/bees, good for screening
6	Michelia champaca	Son chafa	98	Fragrant flowers or leaves, attracts birds, butterflies and bees, evergreen tree
7	Murraya exotica	Kunti	84	Ornamental Tree
8	Pongamia pinnata	Karanj	41	Shady Tree & Biodiesel yielding Plant
9	Spathodea companulata	Fountain Tree	83	Ornamental and Shady Tree
10	Tabebuia rosea	Pink trumpet	41	Flowering, Shade giving, Drought Tolerant tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	12739 KW
	During Operation phase (Demand load):	12101 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	Bldg No. 2: 2 DG Sets of capacity 1010 kVA each, Bldg No. 3: 1 DG Set of capacity 750 kVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

Energy saving:
? Use of T-5 Fittings (28 w), LED fittings (18 w) and Electronic ballasts instead of Fluorescent Light fittings (40w) and copper ballasts.
? User to be recommended to use BEE FIVE star certified appliance and Air conditioners
? Use of BEE Certified Motors
? Use of Group controls and Variable speed drives
? Use of EFF-1 motors for fans & Pumps
? Use of CO sensors and VFD Fans
? 50% of Street lights on Solar
? Provision of Solar PV panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy saving	Shall be submitted
2	Energy saving due to Solar	Shall be submitted

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage Treatment Plant (STP)
Sewage	Not applicable	Organic Waste Convertor (OWC)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Shall be submitted
	O & M cost:	Shall be submitted

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	1.44
2	Air Environment	Air and Noise quality: By outside MoEF & CC Approved Laboratory	0.22
3	Air Environment	Air and Noise quality: Sensors for Air quality & Noise level monitoring	1.93
4	Air Environment	EMP for batching plant	0.23
5	Water Environment	Drinking water analysis	0.03
6	Land Environment	Site Sanitation	1.43
7	Socio-Economic Environment	Disinfection- Pest Control	1.20
8	Socio-Economic Environment	Health Check Up	6.00
9	Disaster management	DMP Costing	58.57

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 - Ambient Air quality & Noise Monitoring:	On site sensors	No set up cost is involved as already considered Construction Phase	0.50
2	AIR & NOISE ENVIRONMENT - Ambient Air quality & Noise Monitoring:	By outside MoEF & CC Approved Laboratory	*No set up cost is involved	0.22
3	AIR & NOISE ENVIRONMENT – Cost for DG Stack Exhaust Monitoring	3 nos. of stacks	*No set up cost is involved	0.02
4	AIR & NOISE ENVIRONMENT – Cost for plantation	RG area	48.32	1.20
5	WATER ENVIRONMENT - Waste water treatment	Cost for sewage Treatment Plant	189.72	50.47
6	WATER ENVIRONMENT - Cost for water & waste water Monitoring	On site sensors	54.00	3.00
7	WATER ENVIRONMENT - Cost for water & waste water Monitoring	By outside MoEF & CC Approved Laboratory	*No set up cost is involved	0.08
8	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for Recharge Pits (20 Nos.)	60.00	3.00

9	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for 3 Nos. of RWH tanks	25.60	1.28
10	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for Rain Water collected in tanks	9.00	0.03
11	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.14
12	LAND ENVIRONMENT - Solid Waste Management	3 Nos. OWC	45.00	0.90
13	LAND ENVIRONMENT - Solid Waste Management	Environmental Monitoring	No set up cost is involved	0.24
14	Disaster Management costing	DMP Cost	1719.02	61.78

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 entry exit for each building

Parking details:	**Number and area of basement:**	1 Basement
	Number and area of podia:	Building 2: 3 Podia (41995.26 Sq. mt.), Building 3: 2 Podia (2120.00 Sq. mt)
	Total Parking area:	39800.45 Sq. mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	618 Nos.
	Number of 4-Wheelers as approved by competent authority:	1743 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	12 mt. Wide
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Thane Creek Flamingo Sanctuary – 2.0 Km, Sanjay Gandhi national park – 2.0 Km
	Category as per schedule of EIA Notification sheet	8 (b) B1
	Court cases pending if any	Not applicable
	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. Devang was present during the meeting along with environmental consultant M/s. Ultra-Tech.

DECISION OF SEAC

It is noted that representative of PP not submitted the proper authority letter. PP to submit the same along with other documents like copy of company resolution etc.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Environmental Clearance (EC) for Proposed Slum Rehabilitation (SRA) Scheme along with Sale Component at Village Powai, Mumbai

Is a Violation Case: No

1.Name of Project	Proposed Rehabilitation Scheme along with Sale Component at Village Powai, Mumbai.
2.Type of institution	Private
3.Name of Project Proponent	M/s. RBS Real Estate Ventures Pvt. Ltd. , Mr. Vikas Bhawanishankar Sharma (Authorized Signatory)
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	SRA scheme
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	CTS no. 23A (Pt.), 26A(Pt.) & 27(Pt.), at Hiranandani Garden, Village-Powai, Mumbai
9.Taluka	Kurla
10.Village	Powai
Correspondence Name:	M/s. RBS Real Estate Ventures Pvt. Ltd.
Room Number:	--
Floor:	--
Building Name:	Sharma Cottage, Supreme City, Behind, Lake Castle Bldg.,
Road/Street Name:	--
Locality:	Hiranandani Gardens, Powai
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	Received IOA from Mumbai Metropolitan Region Development Authority (MMRDA) No. MMRDA/SRACell/LOI-78/IOA-144/PL/S/2018 dtd.17.09.2018 (For Rehab Building No. 1)
	IOD/IOA/Concession/Plan Approval Number: IOA No. MMRDA/SRACell/LOI-78/IOA-144/PL/S/2018 (Rehab Building No. 1)
	Approved Built-up Area: 15819
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received LOI From MMRDA No. MMRDA/SRACell/LOI-78/PL/S/2018 dtd. 21/03/2018
15.Total Plot Area (sq. m.)	60000.00 Sq. mt
16.Deductions	5375.00 Sq. mt.
17.Net Plot area	54625.00 Sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 248593.38 Sq. mt.
	b) Non FSI area (sq. m.): 176029.40 Sq. mt.
	c) Total BUA area (sq. m.): 424622.78
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 8979.55
	Approved Non FSI area (sq. m.): 6839.45
	Date of Approval: 17-09-2018
19.Total ground coverage (m2)	21929.73 Sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	40.15 %
21.Estimated cost of the project	9795600000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehabilitation : 11 Nos. of buildings	--	--
2	Building No. 1	Lower Ground/Basement Floor + Upper Ground Floor + 1st To 22nd Floors	69.70
3	Building No. 2	Ground/Stilt Floor + 1st To 23rd Floors	69.85
4	Building No 3	Lower Ground/Basement Floor + Upper Ground Floor + 1st To 21st Floors + 22nd (pt.) Floor	68.95
5	Building No 4,5,6,7	Lower Ground/Basement Floor + Upper Ground Floor + 1st To 22nd Floors + 23rd (pt.) Floor	69.75
6	Building No. 8	Lower Ground/Basement Floor + Upper Ground Floor + 1st To 22nd Floors + 23rd (pt.) Floor	69.90
7	Building No 9	Lower Ground/ Basement Floor + Upper Ground Floor + 1st To 22nd Floors	69.75
8	Building No. 10	Ground/ Stilt Floor + 1st To 22nd Floors + 23rd (pt.) Floor	69.90
9	Building No 11	Ground/Stilt Floor + 1st To 23rd Floors	69.90
10	Sale : 2 Nos. of buildings	--	--
11	Building 1 Wing A	4 Basements + Ground + 1st to 2nd Floor (Retail) + 3rd Floor (Multiplex)	26.60
12	Building 1 Wing B	4 Basements + Ground + 1st to 2nd Floor (Retail)+ 3rd Floor (Multiplex) + 1st To 9th Floors (Offices)	59.80
13	Building 1 Wing C	4 Basements + Ground + 1st to 2nd Floor (Retail) + 3rd Floor (Multiplex) + 1st To 18th Floors (Services Apartments)	56.70
14	Building 2	4 Basements + Ground +1st To 3rd Podia + 1st To 23rd (Offices)	112.90

23.Number of tenants and shops	Rehabilitation : PAP Flats: 4021 Nos. Balwadi: 41 Nos. Welfare center: 41 Nos. Society Offices: 41 Nos. Sale: Offices: 81 Nos. Cinema: 6 Nos. Service Apartment. 84 Nos. Food Kiosk: 1 No. Retail: 54 Nos. Cafeteria : 1 No.
24.Number of expected residents / users	32134 Nos.

25.Tenant density per hectare	752/ hectors
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	It is connected by Proposed 18.30 mt. DP Road & Proposed13.40 mt wide D.P. Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 mt.
29.Existing structure (s) if any	There are some existing structures present on site which will be demolished.
30.Details of the demolition with disposal (If applicable)	Demolition debris generated from the existing structures shall be partly reused/ recycled and remaining shall be disposed to Authorized landfill site.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	M.C.G.M
	Fresh water (CMD):	1749 KLD
	Recycled water - Flushing (CMD):	999 KLD
	Recycled water - Gardening (CMD):	93 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2841 KLD
	Fire fighting - Underground water tank(CMD):	Rehab: 1100 KL Sale: 300 KL
	Fire fighting - Overhead water tank(CMD):	30 KL for Each Staircase of each Building
	Excess treated water	1067 KLD

Wet season:	**Source of water**	M.C.G.M/ Partly by RWH
	Fresh water (CMD):	1749 KLD
	Recycled water - Flushing (CMD):	999 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	2748 KLD
	Fire fighting - Underground water tank(CMD):	Rehab: 1100 KL Sale: 300 KL
	Fire fighting - Overhead water tank(CMD):	30 KL for Each Staircase of each Building
	Excess treated water	1160 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:**	Ground water table is 3.1 mt. to 9.75 mt. below ground surface
	Size and no of RWH tank(s) and Quantity:	For Rehabilitation : 11 RWH Tanks of total capacity 156 KL For Sale : 2 RWH Tanks of total capacity 150 KL
	Location of the RWH tank(s):	Rehabilitation : Underground Sale: Basement Level
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	69.60 Lacs
	Budgetary allocation (O & M cost) :	2.33 Lacs/Anum
	Details of UGT tanks if any :	Location of UG tank- Basement Level

35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged in to the municipal SWD
	Quantity of storm water:	Details shall be Submitted
	Size of SWD:	Details shall be Submitted

Sewage and Waste water	**Sewage generation in KLD:**	2399 KLD
	STP technology:	Moving Bed Bio Reactor (MBBR)
	Capacity of STP (CMD):	Rehabilitation: 5 STPs of total capacity 2315 KL Sale: 1 STP of 500 KL
	Location & area of the STP:	Basement Level
	Budgetary allocation (Capital cost):	585.86 Lacs
	Budgetary allocation (O & M cost):	114.48 Lacs/Anum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation material shall be completely reused on site for road leveling, filling and construction of retaining Wall.
	Disposal of the construction waste debris:	Construction waste material shall be partly recycled and remaining shall be disposed to the authorized land fill site
Waste generation in the operation Phase:	**Dry waste:**	5341 kg/day
	Wet waste:	3564 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	360 kg/day
	Others if any:	E-Waste: 25 kg/day
Mode of Disposal of waste:	**Dry waste:**	To authorized recyclers
	Wet waste:	Treatment in Organic Waste Convertors (OWC)
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	E-Waste :Stored separately and disposed through authorized recyclers.
Area requirement:	**Location(s):**	Stilt Level
	Area for the storage of waste & other material:	Details shall be submitted
	Area for machinery:	Details shall be submitted
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	54.00 Lacs
	O & M cost:	16.23 Lacs/Anum

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	DG Set	--	--	--	--	--

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 :**	13761.47 sq.mt.
	No of trees to be cut :	Details shall be submitted
	Number of trees to be planted :	Details shall be submitted
	List of proposed native trees :	Details shall be submitted
	Timeline for completion of plantation :	At the time of 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	Details shall be submitted	--	--	--
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 :**	Local Authority
	During Construction Phase: (Demand Load)	150 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	23104 KW
	During Operation phase (Demand load):	16273 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	Rehabilitation : 3 DG Sets of Capacity 750 kVA Each and 1 DG Set of Capacity 625 kVA Sale: 1 DG Set of Capacity 750 kVA and 1 DG Set of Capacity 380 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

- Provision of LED Light in Common area and for External / Landscaping Lighting
- Provision of VFD , high efficient pump & BEE Certified Motors
- Provision of Solar lighting for External Light (Standalone with PV panel)
- Provision of Solar hot water heater system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Details Shall be Submitted	Details Shall be Submitted

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage Treatment Plan (STP)
Biodegradable Solid waste	Not applicable	Organic Waste Convertor (OWC)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Details Shall be Submitted
	O & M cost:	Details Shall be Submitted

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	Air Environment	1.58
2	Air Environment	Air and Noise quality: By outside MoEF & CC Approved Laboratory	0.22

3	Air Environment	Air and Noise quality: Sensors for Air quality & Noise level monitoring	1.93
4	Water Environment	Drinking water analysis	0.03
5	Land Environment	Site Sanitation	1.43
6	Socio-Economic Environment	Disinfection- Pest Control at site	1.20
7	Socio-Economic Environment	Health Check Up of workers	7.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	AIR & 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
2	AIR & NOISE ENVIRONMENT – Cost for Ambient Air quality & Noise Monitoring:	By outside MoEF & CC Approved Laboratory	*No set up cost is involved	0.22
3	AIR & NOISE ENVIRONMENT – Cost for Ambient Air quality & Noise Monitoring:	4 nos. of stacks	*No set up cost is involved	0.05
4	AIR & NOISE ENVIRONMENT – Cost for Ambient Air quality & Noise Monitoring:	13761.50 Sq. mt. of RG area on ground	75.69	1.20
5	WATER ENVIRONMENT - Cost for Waste water treatment	Cost for sewage Treatment Plants	477.86	108.32
6	WATER ENVIRONMENT - Cost for water & waste water Monitoring	On site sensors	108.00	6.00
7	WATER ENVIRONMENT - Cost for water & waste water Monitoring	By outside MoEF & CC Approved Laboratory	*No set up cost is involved	0.16
8	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for 13 Nos. of RWH tanks	30.60	1.53
9	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for Rain Water collected in tanks	39.00	0.21

10	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.59
11	LAND ENVIRONMENT - Cost for Solid Waste Management	6 Nos. OWC	54.00	16.23
12	LAND ENVIRONMENT - Cost for Solid Waste Management	Cost for manure Monitoring	No set up cost is involved	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:	One entry- Exit for Rehabilitation and One entry exit for Sale
Parking details:	**Number and area of basement:**	As mentioned in point. No. 24
	Number and area of podia:	Not Applicable
	Total Parking area:	56990.49 Sq.mt
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	Parking spaces provision : 607 Nos.
	Number of 4-Wheelers as approved by competent authority:	Parking spaces provision : 2426 Nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Min 6.0 mt. driveway
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park: Approx. 4.00 Km , Thane creek flamingo sanctuary: Approx. 3.00 Km
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	No
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

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 108th (Day-2) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 108 **Meeting Date** August 14, 2019

Subject: Environment Clearance for Proposed Residential redevelopment of existing dilapidated and declared dangerous cess building on plot bearing C.S. No. 590 of Malabar & Cumballa Hill Division, Nepeansea Road Mumbai -400036.

Is a Violation Case: No

1.Name of Project	Proposed Residential redevelopment of existing dilapidated and declared dangerous cess building on plot bearing C.S. No. 590 of Malabar & Cumballa Hill Division, Nepeansea Road Mumbai -400036.
2.Type of institution	Private
3.Name of Project Proponent	M/s. Kupati Builders Pvt. Ltd. & Kapi Builders Pvt. Ltd.
4.Name of Consultant	AQURA Enviro Projects Pvt. Ltd.
5.Type of project	Redevelopment project of existing dilapilated and declared dangerous cess building.
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing C.S. No. 590 of Malabar & Cumballa Hill Division
9.Taluka	Mumbai
10.Village	Mumbai
Correspondence Name:	Mr. Hitesh Gowani
Room Number:	501
Floor:	5th Floor
Building Name:	Commerce House
Road/Street Name:	140 N. M. Road
Locality:	Fort
City:	Mumbai - 400023
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	Concession Document Letter vide No. EB/9304/D/A dated 07.01.2019
	IOD/IOA/Concession/Plan Approval Number: Concession Document Letter vide No. EB/9304/D/A dated 07.01.2019
	Approved Built-up Area: 9804.75
13.Note on the initiated work (If applicable)	Basement and Ground work is in progress and Excavation work done as per SWM NOC vide no. SWM/002316/2018/D/CTY Dated 03 Dec 2018.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MHADA COC vide letter No. R/NOC/ C. S. No. 590 of M. H. Divn/2610/MBRRB-17 dated 25.04.2017
15.Total Plot Area (sq. m.)	2437.31Sq. M.
16.Deductions	Set Back Area = 98.25 Sq. M.
17.Net Plot area	2339.06 Sq. M
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 9804.75 Sq. M.
	b) Non FSI area (sq. m.): 27050.66 Sq. M
	c) Total BUA area (sq. m.): 36855.41
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 9804.75 Sq. M.
	Approved Non FSI area (sq. m.): 27050.66 Sq. M.
	Date of Approval: 07-01-2019
19.Total ground coverage (m2)	1573.03 Sq. M.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	64.54%
21.Estimated cost of the project	1103770000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential Building 1	Basement + Ground + 1st to 10th Podium Floors + 11th to 28th upper floors and 29th part floor.	118.60 m

23.Number of tenants and shops	35 Flats, 1 multipurpose Room
24.Number of expected residents / users	Residential Population = 242 Nos. Drivers = 36 Maids = 36 Visitors = 49 Building Staff + Security Guard + Liftman = 14 Total = 359
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)	27.45 m (90 ft.) wide Nepean Sea Road to the East & Internal Road of approximately 6 m.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Plot is abutting 27.45 m (90 ft.) wide road & front open space of 3 m clear and 6 m clear side open space is kept. CFO NOC is also taken for the same. MC approved for open spaces is taken. Same are annexed for ready reference
29.Existing structure (s) if any	None
30.Details of the demolition with disposal (If applicable)	Existing structure has been declared dilapidated and dangerous by Dy. Ch. Engg. of MCGM on 22.06.2009 and same had collapsed partly on its own and it has been demolished as per direction of MCGM.

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):	23.5
	Recycled water - Flushing (CMD):	12.7
	Recycled water - Gardening (CMD):	2.2
	Swimming pool make up (Cum):	0.6
	Total Water Requirement (CMD) :	36.2
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	30
	Excess treated water	12.6
Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	23.5
	Recycled water - Flushing (CMD):	12.7
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	0.6
	Total Water Requirement (CMD) :	36.2
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	30
	Excess treated water	14.8
Details of Swimming pool (If any)	Details of Swimming pool (If any): Area: 100.8 Sq. m Capacity (volume): 121.04 Cum Make up to Water requirement: 675 litre	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.7 to 2.6 m below Ground level
	Size and no of RWH tank(s) and Quantity:	1 Tank of 20 CMD (2 days storage) Capacity
	Location of the RWH tank(s):	Basement Level
	Quantity of recharge pits:	None
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	5.0 Lakh
	Budgetary allocation (O & M cost) :	0.61 Lakh/year
	Details of UGT tanks if any :	Domestic: 23.4 CMD Flushing: 12.7 CMD Fire Tank: 300 CMD RWH Tank: 20 CMD
35.Storm water drainage	**Natural water drainage pattern:**	Strom water drain is laid at a slope of 1: 300 to the municipal outfall outside the plot. Rainwater from site shall be collected by network of storm water piping system through catch basins and storm channel & then allowed to connect to the public storm water line outside the plot boundary.
	Quantity of storm water:	0.0701 cum/sec
	Size of SWD:	300mm to 450 mm wide channel
Sewage and Waste water	**Sewage generation in KLD:**	30.8 KLD
	STP technology:	Moving Bed Bio Reactor
	Capacity of STP (CMD):	1 STP of 35 CMD
	Location & area of the STP:	Basement Level – 60 Sq. m.
	Budgetary allocation (Capital cost):	12.5 Lakh
	Budgetary allocation (O & M cost):	8.39 Lakh/ Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris
	Disposal of the construction waste debris:	Disposal of construction waste will be as per Construction and Demolition and De-silting Waste (Management and Disposal) Rules 2016 at the designated site as directed by the MCGM
Waste generation in the operation Phase:	**Dry waste:**	69 Kg/ Day
	Wet waste:	46 Kg/Day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	0.3 kg/day
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Dry waste would be further segregated into recyclable and non-recyclable. Recyclable will be handed over to authorize vendors and non-recyclable will be handed over to local bodies.
	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:	Not Applicable
Area requirement:	**Location(s):**	Ground level
	Area for the storage of waste & other material:	29 Sq. m
	Area for machinery:	5.00 Sq. m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 Lakh
	O & M cost:	2 Lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total

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

43.Green Belt Development	**Total RG area :**	Layout Open Space on Podium = 365.59 Sq. Mt.
	No of trees to be cut :	None
	Number of trees to be planted :	No. of Trees to be retain: 1 , No. of Trees to be planted as per Layout Open Space: 18 , Number of trees to be planted: 17
	List of proposed native trees :	Neem, Sita Ashok, Son Chafa, Kadamb
	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	Azadiracta indica	Neem	5	Large tree, good for roadside plantation, have medicinal value
2	Saraca asoka	Sita Ashok	5	Shady tree with red-yellow flowers
3	Michelia champaca	Son Chafa	5	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
4	Anthocephallus cadamba	Kadamb	5	Shady, large tree, ball shaped flowers.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Vitex Negunda (Nirgudi)	2.00 m	--
2	Adhatoda Vasica (Adulasa)	1.75 m	--
3	Plumbago Zeylanica (White Plumbago)	1.50 m	--

47.Energy

Power requirement:	**Source of power supply :**	Brihanmumbai Electricity Supply and Transport (B.E.S.T)
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	2120 KW
	During Operation phase (Demand load):	765 KW
	Transformer:	Transformer size will be subject to approval by supply company
	DG set as Power back-up during operation phase:	500 KVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:

Solar PV Panels for common area lighting & Hot water

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	External area lighting load - 25 NOS 50 W External lights with standalone solar panel	12 KWH Per day
2	Common Area Lighting Load - Led Light	208.1 KWH Per day
3	Lifts - Motor With VFD	27 KWH Per day
4	Hot Water - Solar Water Heater	16 KWH Per day
5	Energy Generation by Solar PV Cells - Solar Power Plant Connected to Grid	54 KWH Per day

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:**	25.5 Lakhs
	O & M cost:	2.36 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	0.5
2	Air Environment	Tyre cleaning and Vehicle maintenance	0.5

3	Air Environment	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	0.1
4	Drinking water	Potable Water Supply	0.75
5	Socio-economic Environment	Site sanitation Facility and its maintenance	1.0
6	Health & Safety	Disinfection at Site	0.2
7	Health & Safety	Health check-up & first aid	1.0
8	Health & Safety	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves etc.)	5.0
9	Health & Safety	Safety Training to Workers (Twice in Year), Safety Officer	0.25
10	Health & Safety	Safety nets	0.25
11	Environment management	Environmental Monitoring	5.00

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 & Sewerage network	1 STP of 35 KLD	12.5	8.39
2	RWH System	1 RWH tank of 230 CMD Capacity	5	0.61
3	Environmental Monitoring	Six Monthly Monitoring	0	5
4	Solid Waste Management	1 no. of OWC	10	2
5	Solar Installation	Solar PV Panels for common area lighting & Hot water	25.5	2.36
6	Landscaping	Maintaining RG area	2	0.3

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:	One
Parking details:	**Number and area of basement:**	1 basement = 977.78 Sq. Mt
	Number and area of podia:	10 Podiums = 15730.50 Sq. Mt
	Total Parking area:	14157.45 Sq. Mt
	Area per car:	13.75 Sq. Mt
	Area per car:	13.75 Sq. Mt
	Number of 2-Wheelers as approved by competent authority:	29 Nos.
	Number of 4-Wheelers as approved by competent authority:	113 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	Yes, MCZMA NOC vide letter No. CRZ 2019/CR 67/TC 4 dated 04.05.2019
	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) {Building and Construction projects = 20,000 sq. m. and <1,50,000 sq. m. of built-up area} Category '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	-

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. AQURA Enviro Projects Pvt. Ltd.

PP informed that, the project under consideration is redevelopment of existing dilapidated and declared cess building project.

PP further stated that, the total plot area of the project is 2437.31 Sq.mt. having total construction area 36855.41 Sq.mt (FSI - 9804.75 sq.mt +NON FSI- 27050.66 sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Residential Building 1	Basement + Ground + 1st to 10th Podium Floors + 11th to 28th upper floors and 29th part floor.	118.60 m

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) As agreed by PP, PP to install mechanically operable bollard between plot boundary and common public road and to see that there remains 9 mt clear drive way for fire tender movement and to give one exit space for fire tender on north-west side of the plot.
2) PP to ensure that STP should have minimum top 40% area openness for adequate ventilation.
3) PP to provide rain water harvesting on podium as per requirement of clause 47 of DCR.
4) PP to submit the revised architect certificate with name & registration number of architect.
5) 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.
6) 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