Agenda of 128th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 128 **Meeting Date** February 12, 2020

Subject: Environment Clearance for Proposed expansion by addition of IT Building No. 15, IT Building No. 16, Hotel, MLCP, Retail, Kiosk and other ancillary structures in existing IT Park on Plot No. 3, TTC Industrial Area, MIDC, Airoli, Navi Mumbai, Maharashtra

Is a Violation Case: No

1.Name of Project	Proposed expansion by addition of IT Building No. 15, IT Building No. 16, Hotel, MLCP, Retail, Kiosk and other ancillary structures in existing IT Park on Plot No. 3, TTC Industrial Area, MIDC, Airoli, Navi Mumbai, Maharashtra
2.Type of institution	Private
3.Name of Project Proponent	Mindspace Business Parks Private Limited
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	IT Park / Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Previous Environmental Clearance is received vide letter No. SEIAA-EC-0000001942 dated 9th August 2019 .
8.Location of the project	Plot No. 3, TTC Industrial Area, MIDC, Airoli, Navi Mumbai, Maharashtra
9.Taluka	Thane
10.Village	Airoli
Correspondence Name:	Mr. Pramod Mhamane
Room Number:	-
Floor:	6th floor
Building Name:	Raheja Tower
Road/Street Name:	-
Locality:	Plot No. C-30, G-Block, Bandra-Kurla Complex, Bandra (East)
City:	Mumbai
11.Whether in Corporation / Municipal / other area	MIDC
12.IOD/IOA/Concession/Plan Approval Number	MIDC approval for existing IT Park is granted vide letter dated 3rd June 2015. Approval for Hotel & MLCP buildings is granted vide letter dated 15th October 2018. Application for approval is submitted to MIDC on 18th March 2019 for Retail and Kiosk. Application for IT Building No. 15 is submitted to MIDC on 21st June 2019.
	IOD/IOA/Concession/Plan Approval Number: For existing IT Building No. 1 to 12 & 14: DE/MHP(C)I/3/IFMS/B-65206 dated 3rd June 2015, For proposed Hotel Building & MLCP: EE/SPA/IT-5/FMS/P45893/0518 dated 15th October 2018
	Approved Built-up Area: 512344.60
13.Note on the initiated work (If applicable)	Work of Building No. 1 to 12 & 14 is completed. Construction work for proposed expansion is yet to be initiated.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	202740.00
16.Deductions	3142.20
17.Net Plot area	199597.80
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 570748.39 sq. m. (after expansion)
	b) Non FSI area (sq. m.): 308586.93 sq. m. (after expansion)
	c) Total BUA area (sq. m.): 879335.32
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 367765.26
	Approved Non FSI area (sq. m.): 144579.34
	Date of Approval: 15-10-2018
19.Total ground coverage (m2)	125887.07

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20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	62.1%
21.Estimated cost of the project	10130000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	IT Building No. 1 to 4 & 7 (existing)	Stilt + 3 Parking Floors + 8 Office Floors	44.90
2	IT Building No. 5 & 6 (existing)	Stilt + 2 Parking Floors + 8 Office Floors	42.00
3	IT Building No. 8 (existing)	Stilt + 7 Office Floors	32.05
4	IT Building No. 9, 10 & 11 (existing)	Stilt + 1 Covered Podium Parking + 8 Office Floors	40.85
5	IT Building No. 12 (existing)	Stilt + 1 Covered Podium Parking + 8 Office Floors	40.87
6	IT Building No. 14 (existing)	Stilt + Podium + 8 Office Floors	40.85
7	Clubhouse (existing)	Ground + 1	8.40
8	Control Room (existing)	Ground + 1	8.40
9	IT Building No. 15 (proposed)	Basement + Stilt + 7 Parking Floors + 15 Upper Floors	100.80
10	IT Building No. 16 (proposed)	Basement + Stilt + 9 Parking Floors + 15 Upper Floors	109.20
11	Retail (proposed)	Ground + 1	10.80
12	Kiosk (proposed)	Ground Floor	4.20
13	Hotel Building (proposed)	Basement + Ground + Service Floor + 17 Upper Floors	69.75
14	MLCP (proposed)	Basement + Ground + 7 Upper Floors	24.30

23.Number of tenants and shops	36 shops proposed in retail area
24.Number of expected residents / users	Existing: 70570, Proposed: 42592 (For IT Building No. 15 & 16: 39400, For Retail & Kiosk: 1744, For Hotel Building & MLCP: 1440)
25.Tenant density per hectare	Not applicable as it is an IT Park project.
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 plot is abutting to existing 45.00 m wide Thane-Belapur 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	Existing IT Building No. 1 to 12 & 14

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30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Maharashtra Industrial Development Corporation (MIDC) for fresh water and STP treated water
	Fresh water (CMD):	2897
	Recycled water - Flushing (CMD):	2292
	Recycled water - Gardening (CMD):	166
	Swimming pool make up (Cum):	11
	Total Water Requirement (CMD) :	6852 (including HVAC water requirement)
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20 (for each building)
	Excess treated water	0
Wet season:	**Source of water**	Maharashtra Industrial Development Corporation (MIDC) for fresh water and STP treated water
	Fresh water (CMD):	2897
	Recycled water - Flushing (CMD):	2292
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	11
	Total Water Requirement (CMD) :	6686 (including HVAC water requirement)
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20 (for each building)
	Excess treated water	0
Details of Swimming pool (If any)	-	

33.Details of Total water consumed

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Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	3176	2013	5189	635	403	1038	2541	1611	4151

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 m
	Size and no of RWH tank(s) and Quantity:	Existing: 13 nos. of RWH tanks of total capacity 1117 cum, For IT Building 15: 1 no. of RWH tank of capacity 120 cum, For IT Building 16: 1 no. of RWH tank of capacity 100 cum, For Hotel Building & MLCP: 1 no. of RWH tank of capacity 240 cum
	Location of the RWH tank(s):	Below ground level
	Quantity of recharge pits:	Existing: 13 nos. of recharge pits, For IT Building 15: 4 nos. of recharge pits, For IT Building 16: 4 nos. of recharge pits, For Hotel Building & MLCP: 6 nos. of recharge pits each for Hotel Building & MLCP
	Size of recharge pits :	Existing: 4 m X 4 m X 4 m (for each recharge pit), For IT Building 15: 12 m X 3.6 m X 3.8 m, For IT Building 16: 4 m X 4 m X 4 m (for each recharge pit), For Hotel Building & MLCP: 2 m X 2 m X 2.5 m (for each recharge pit)
	Budgetary allocation (Capital cost) :	Rs. 483.8 Lakh
	Budgetary allocation (O & M cost) :	Rs. 77.88 Lakh
	Details of UGT tanks if any :	Provided in EIA report
35.Storm water drainage	**Natural water drainage pattern:**	Natural drainage pattern will be maintained at site.
	Quantity of storm water:	1.72 cum/sec
	Size of SWD:	0.6 m x 0.6 m
Sewage and Waste water	**Sewage generation in KLD:**	4151 cmd
	STP technology:	MBBR technology for STPs installed / proposed for IT Buildings and SBR technology for STP proposed for Hotel Building & MLCP
	Capacity of STP (CMD):	Existing: 13 no. of STPs of total capacity 2885 cmd, For IT Building 15: 1 no. of STP of capacity 975 cmd, For IT Building 16: 1 no. of STP of capacity 600 cmd, For Retail & Kiosks: 1 no. of STP of capacity 125 cmd, For Hotel Building & MLCP: 1 no. of STP of capacity 150 cmd
	Location & area of the STP:	Below ground level
	Budgetary allocation (Capital cost):	Rs. 1495 Lakh
	Budgetary allocation (O & M cost):	Rs. 157.75 Lakh/year

36.Solid waste Management

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Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Broken bricks, tiles, wooden pieces, empty cement bags, packaging materials, insulating plastic, metal pieces etc.
	Disposal of the construction waste debris:	The solid waste generated during construction will be properly segregated and sent to authorized recycler.
Waste generation in the operation Phase:	**Dry waste:**	13578 kg/ day (existing: 8468 kg/day + proposed: 5110 kg/day)
	Wet waste:	9052 kg/ day (existing: 5646 kg/day + proposed: 3407 kg/day)
	Hazardous waste:	Used / spent oil from DG set and transformer
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	415 kg/day
	Others if any:	-
Mode of Disposal of waste:	**Dry waste:**	To be handed over to municipal authority for recycling
	Wet waste:	OWC is provided on site for treatment of wet waste.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	To be used as manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Lower Basement
	Area for the storage of waste & other material:	Included in machinery area
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 112.2 Lakh
	O & M cost:	Rs. 23.02 Lakh/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used / Spent Oil	5.1	kL/A	As & when generated	As & when generated	As & when generated	Sale to authorized waste recyclers

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39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG sets (details are mentioned in Item No. 48)	HSD	For every DG set there will be one stack which will be as per CPCB norms.	As per CPCB standards	As per CPCB standards	As per CPCB standards

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 :**	21127.00 sq. m.
	No of trees to be cut :	145
	Number of trees to be planted :	2721
	List of proposed native trees :	As per landscape plan
	Timeline for completion of plantation :	Already planted on site for existing development and till completion of construction for proposed expansion

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	As per landscape plan	As per landscape plan	As per landscape plan	As per landscape plan
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	As per landscape plan	As per landscape plan	As per landscape plan

47.Energy

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Power requirement:	**Source of power supply :**	Mindspace Serene Electricity Distribution Licensee
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	100% power back-up
	During Operation phase (Connected load):	For existing IT Buildings: 31850 kVA, For proposed buildings under expansion: 28250 kVA, For entire project: 60100 kVA
	During Operation phase (Demand load):	For existing IT Buildings: 19250 kVA, For proposed buildings under expansion: 19850 kVA, For entire project: 39100 kVA
	Transformer:	For existing: 24 x 2000 kVA & 2 x 1500 kVA provided already on site, For IT Building 15: 8 x 2000 kVA, For Hotel Building & MLCP: 2 x 1500 kVA, For IT Building 16: 4 x 2500 kVA, Retail and Kiosk: 1 x 1000 kVA
	DG set as Power back-up during operation phase:	For existing: 30 x 1010 kVA, 6 x 1110 kVA, 4 x 2000 kVA, 3 x 1500 kVA of total capacity 49,460 kVA, 2 x 750 kVA stand by DG, For IT Building 15: 8 x 2000 kVA, For Hotel Building & MLCP: 2 x 1500 kVA, For IT Building 16: 4 x 2500 kVA, Retail and Kiosk: 1 x 1000 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

• Use of transformers with no load and on load Watt losses as per ECBC
• Use of high frequency, high power factor, electronic ballasts in place of conventional copper iron ballasts in light fixtures.
• Using energy efficient light fixtures with good photometric properties
• Using LEDs in external lighting bollard, in areas such as staircases, corridors and lift lobbies where lights burn on 24 hours basis.
• Using LED fixtures in basement, stilts and underground parking areas
• Putting external lighting control on time switch / time control
• Using time switch control / timer control for basement lighting
• Employing solar powered lighting for part of the external lighting fixtures
• Using high efficiency motors 'EF1' for pumps and ventilation fans
• Capacitors shall have a long life in excess of 1,50,000 hours with low losses in the range of 0.2 Watt/kVA
• External lighting: 30% of the lighting is proposed on solar. These are set of lighting which are placed at critical junctions and which would be lit round the night. Otherwise the other 70% lighting is on timer circuits to achieve the maximum savings.
• Energy conservation is based on ECBC code.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy savings	15-20%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Wastewater	STP for existing IT Building 1 to 12 & 14	STP for IT Building 15, 16, Retail & Kiosk and Hotel Building & MLCP
Municipal Solid Waste	OWC for existing IT Building 1 to 12 & 14	OWC for IT Building 15, 16, Retail & Kiosk and Hotel Building & MLCP

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Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 1607.2 Lakh
	O & M cost:	Rs. 180.77 Lakh/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Debris management	NA	110
2	Environment protection measures	NA	33
3	Health and safety of construction labours	NA	39

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	-	1495	157.75
2	Environmental monitoring	Monitoring of air, water, soil, wastewater, DG stack, noise etc. parameters	0	35
3	Solid waste management	Waste collection, storage and disposal	112.2	23.02
4	Rainwater Harvesting	-	483.8	77.88
5	Green belt development	Landscaping on plot area	500	45
6	-	-	-	-
7	-	-	-	-

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 site is directly connected to Thane-Belapur Road.

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Parking details:	**Number and area of basement:**	Basement for IT Building No. 15, IT Building No. 16 and Hotel Building will be used for services. Area of basement for MLCP = 1521.52 sq. m.
	Number and area of podia:	NA
	Total Parking area:	252744.69 sq. m.
	Area per car:	24 sq. m. area per car park
	Area per car:	24 sq. m. area per car park
	Number of 2-Wheelers as approved by competent authority:	1100
	Number of 4-Wheelers as approved by competent authority:	10972
	Public Transport:	Not applicable
	Width of all Internal roads (m):	More than 6.0 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Approximately 2.2 km from the boundary of Thane Creek Flamingo Sanctuary on North-Eastern side
	Category as per schedule of EIA Notification sheet	8(b) Category B1
	Court cases pending if any	No. Not applicable
	Other Relevant Informations	Environmental Clearance for existing IT Park comprising of 13 IT & ITES buildings was granted on 23rd August 2007 and 9th August 2019 and the construction is completed. Now, expansion of existing IT park is proposed with proposed construction of IT Building No. 15, IT Building No. 16, Hotel, MLCP, Retail, Kiosk and other ancillary structures.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	07-09-2017

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SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-

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

Brief information of the project by SEAC

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Representative of PP was present during the meeting along with environmental consultant. M/s. Aditya Environmental Services Pvt. Ltd.

PP informed that, the project under consideration is expansion in existing IT park / commercial *project. PP further stated that,* the total plot area of the project is 202740.00 Sq.mt having total construction area 879335.32 Sq.mt (FSI - 570748.39 Sq.mt + NON FSI- 308586.93 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
IT Building No. 1 to 4 & 7 (existing)	Stilt + 3 Parking Floors + 8 Office Floors	44.90
IT Building No. 5 & 6 (existing)	Stilt + 2 Parking Floors + 8 Office Floors	42.00
IT Building No. 8 (existing)	Stilt + 7 Office Floors	32.05
IT Building No. 9, 10 & 11 (existing)	Stilt + 1 Covered Podium Parking + 8 Office Floors	40.85
IT Building No. 12 (existing)	Stilt + 1 Covered Podium Parking + 8 Office Floors	40.87
IT Building No. 14 (existing)	Stilt + Podium + 8 Office Floors	40.85
Clubhouse (existing)	Ground + 1	8.40
Control Room (existing)	Ground + 1	8.40
IT Building No. 15 (proposed)	Basement + Stilt + 7 Parking Floors + 15 Upper Floors	100.80
IT Building No. 16 (proposed)	Basement + Stilt + 9 Parking Floors + 15 Upper Floors	109.20
Retail (proposed)	Ground + 1	9.63
Kiosk (proposed)	Ground Floor	4.20
Hotel Building (proposed)	Basement + Ground + Service Floor + 17 Upper Floors	69.75
MLCP (proposed)	Basement + Ground + 7 Upper Floors	24.30

It is noted that, Project has received Environmental clearance vide letter dated 9th August 2019.

It is noted that the project earlier considered in SEAC-2 126th Meeting held on 07-01-2020 & deferred with observations namely- 1) to upload copy of approved plan for area under consideration. 2) to submit the six monthly compliance report submitted to Ro, Nagpur. 3) to submit dated Architect certificate addressing to committee regarding building wise construction (Configuration, FSI, NoN-FSI, TBUA) approved in earlier EC, approvals from local Authority, actual construction done on site as per earlier EC. 4) Committee noted that, the plot area on which IT building No 15 is proposed was earlier earmarked for parking in open space, PP to explain how they rearranging the parking & RG. 5) to ensure that the project should be zero liquid discharge (ZLD) & zero garbage discharge. 6) to ensure that, new proposed STP should be 40% open to sky for adequate ventilation. 7) to obtain the NoC from Petroleum and Explosives Safety Organisation (PESO) for DG set, if required. 8) to submit the sewerage network, water supply, storm water drain NOC from local planning authority i.e MIDC. 9) to increase the solar energy saving to 5%. 10) to submit the CFO NoC. 11) to submit the detail biodiversity chapter in EIA considering the eco-sensitivity of the site. 12) to submit the DP remarks. 13) to submit Contour and slope analysis super imposed with storm water drain, sewer line map in the project and 500 mtr around the project. 14) to submit & upload wind analysis, shadow analysis, traffic analysis, light and ventilation analysis and measures to reduce heat island effect. 15) to submit project specific DMP. 16) to also refer standard ToR published by MoEF vide order dated 10/04/15 in addition to above 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,

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DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to update the online CS as per EIA.
2) PP to ensure that project should be zero net discharge & zero garbage project.
3) PP to incorporate the mitigation measures to reduce wind speed from 4m/s to less to achieve comfort zone.
4) The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.
5) PP to ensure that CER should be as per green field for additional project cost 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

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Agenda of 128th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 128 **Meeting Date** February 12, 2020

Subject: Environment Clearance for Proposed Data Centre at EL-25 and EL-25 Part, TTC Industrial Area, MIDC, Navi Mumbai 400705.

Is a Violation Case: No

1.Name of Project	Proposed Data Centre at EL-25 and EL-25 Part, TTC Industrial Area, MIDC, Navi Mumbai 400705.
2.Type of institution	Private
3.Name of Project Proponent	M/s. Yashraj Biotechnology Ltd.
4.Name of Consultant	M/s. ULTRA TECH
5.Type of project	Data Centre project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	EL-25 and EL-25 Part, TTC Industrial Area, MIDC, Navi Mumbai 400705.
9.Taluka	Thane
10.Village	Mahape
Correspondence Name:	M/s. Yashraj Biotechnology Limited
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	C-232, TTC Industrial Area, MIDC
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	Maharashtra Industrial Development Corporation (MIDC)
12.IOD/IOA/Concession/Plan Approval Number	Application done on dt. 30.12.2019
	IOD/IOA/Concession/Plan Approval Number: Application done on dt. 30.12.2019
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	16722.00 Sq. mt.
16.Deductions	Nil
17.Net Plot area	16722.00 Sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 47395.83 Sq.mt.
	b) Non FSI area (sq. m.): 24853.41 Sq.mt.
	c) Total BUA area (sq. m.): 72249.24
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 30-12-2019
19.Total ground coverage (m2)	8024.00 Sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	48%
21.Estimated cost of the project	17806000000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Data Centre Building	Wing A & B: Basement + Ground + 8 floors each	50.40

23.Number of tenants and shops	--
24.Number of expected residents / users	600 Nos. (300 people per Wing)
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)	It is connected by Central Road & DNA road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	10.00 mt.
29.Existing structure (s) if any	There was an administration building on site which has been demolished
30.Details of the demolition with disposal (If applicable)	Demolition debris has been 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

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Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	15 KLD
	Recycled water - Flushing (CMD):	12 KLD
	Recycled water - Gardening (CMD):	10 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	37 KLD
	Fire fighting - Underground water tank(CMD):	275 KL
	Fire fighting - Overhead water tank(CMD):	40 KL
	Excess treated water	0
Wet season:	**Source of water**	MIDC/ Partly by RWH tank
	Fresh water (CMD):	15KLD
	Recycled water - Flushing (CMD):	12 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	27 KLD
	Fire fighting - Underground water tank(CMD):	275 KL
	Fire fighting - Overhead water tank(CMD):	40 KL
	Excess treated water	10 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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Ground water table is 3.3 mt. below ground surface
	Size and no of RWH tank(s) and Quantity:	RWH tank of capacity 175 KL
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	Rs. 20.50 Lacs
	Budgetary allocation (O & M cost) :	Rs. 0.93 Lacs/annum
	Details of UGT tanks if any :	Location of UG tank: Underground
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged into the external SWD
	Quantity of storm water:	0.62 m3/sec
	Size of SWD:	1.06 m3/sec
Sewage and Waste water	**Sewage generation in KLD:**	24 KLD
	STP technology:	Sequential Batch Reactor (SBR)
	Capacity of STP (CMD):	STP of capacity 26 KL
	Location & area of the STP:	Basement Level
	Budgetary allocation (Capital cost):	Rs. 68.00 Lacs
	Budgetary allocation (O & M cost):	Rs. 6.03 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation material (46800 cum) shall be reused on site for leveling and refilling over the raft.
	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:**	36 kg/day
	Wet waste:	24 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	4 kg/day
	Others if any:	E waste: 60 kg/annum

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Mode of Disposal of waste:	**Dry waste:**	To authorized recyclers
	Wet waste:	Treatment in Organic Waste Convertor (OWC)
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	As Manure
	Others if any:	E waste - Shall be stored separately & disposal through authorized recyclers
Area requirement:	**Location(s):**	Basement floor
	Area for the storage of waste & other material:	Garbage: 10.00 Sq. mt., E waste: 10.00 Sq. mt.
	Area for machinery:	5.00 Sq. mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 9.00 Lacs
	O & M cost:	Rs. 1.26 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	--	4	38 mt.	--	--

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		--		

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43.Green Belt Development	**Total RG area :**	2576.37 Sq.mt.
	No of trees to be cut :	Nil
	Number of trees to be planted :	Total 60 nos. of trees shall be planted
	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	Plumeria rubra	Red frangipani	4	Flowering tree
2	Magnolia grandiflora	Magnolia, Southern magnolia	10	Flowering tree
3	Mellingtonia hortensis	Indian cork tree	11	Flowering tree, birds fed on its fruits
4	Plumeria alba	White Frangipan, Gulchin	7	Ornamental plant
5	Spathodea companulata	African Tulip Tree	7	Ornamental tree, its flower nectar is very popular for Humming birds.
6	Colvillea recemosa	Colville's Glory	6	Ornamental plant
7	Royalstonia regia	Royal palm	9	Palm tree
8	Cassia fistula	Golden shower tree, Bahava	6	Ornamental plant, it attracts bees and butterflies for pollination.
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	500 kVA
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	92044 KW
	During Operation phase (Demand load):	88006 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	68 nos. of DG sets of capacity 2250 kVA each (34 nos. per Wing)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

- LED Lamps will be used for illumination.
- All Pumps will be used energy efficient type.
- VFDs will be used for Pumps & Chiller control.
- High efficiency Transformers will be used for power distribution.
- BMS and analytics engines will be used for monitoring of services and optimized operations
- Power factor correction devices and Filters for reducing distribution losses.
- Solar system for external lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy saving	20%
2	Energy saving due to renewable energy	8.5%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	NA	STP
Biodegradable Solid wasteNot applicable	NA	Organic Waste Convertor

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 70.00 Lacs
	O & M cost:	Rs. 2.10 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)

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1	Air Environment	Cost 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	2.50
4	Water Environment	Drinking water analysis	0.18
5	Land Environment	Site Sanitation	1.00
6	Health & Hygiene	Disinfection- Pest Control	1.20
7	Health & Hygiene	Health Check Up of workers	4.50

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 Plantation	RG area on ground	11.84	1.20
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	On site sensor	Set up already considered in construction phase	0.50
4	AIR & NOISE ENVIRONMENT - Cost for DG Stack Exhaust Monitoring	4 nos. of stacks	No set up cost is involved	0.19
5	Water Environment - Cost for Waste water treatment	Cost for sewage Treatment Plant	50.00	5.00
6	Water Environment - Cost for water & waste water Monitoring	On site sensors	18.00	1.00
7	Water Environment - Cost for water & waste water Monitoring	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.03
8	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for RWH tanks	17.50	0.88
9	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for Rain Water collected in tanks	3.00	1.00

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10	Water Environment - Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.05
11	Land Environment - Solid Waste Management	Cost for Treatment of biodegradable garbage in OWC	9.00	1.18
12	Land Environment - Solid Waste Management	Cost for Manure Monitoring	No set up cost is involved	0.08
13	Energy Conservation	Solar system	70.00	1.20

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

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
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 & 1 Exit and 1 Rear entry/exist
Parking details:	**Number and area of basement:**	1 Basement (Area: 8172.95 Sq. mt.)
	Number and area of podia:	NA
	Total Parking area:	7253.10 Sq. mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	Required: 24 nos., Provided: 27 nos.
	Number of 4-Wheelers as approved by competent authority:	Required: 260 nos., Provided: 269 nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Min 6.0 mt. driveway
	CRZ/ RRZ clearance obtain, if any:	Not applicable

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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Thane creek flamingo sanctuary: 6.00 km
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	No
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	23-05-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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Representative of PP was present during the meeting along with environmental consultant. M/s Ultra-Tech.

PP informed that, the project under consideration is new data centre project. PP further stated that, the total plot area of the project is 16722.00 Sq.mt having total construction area 72249.24 Sq.mt (FSI - 47395.83 Sq.mt + NON FSI- 2, 24853.41 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Data Centre Building	Wing A & B: Basement + Ground + 8 floors each	50.40

It is noted that the project earlier considered in SEAC-2 57th (DAY 2) Meeting held on 17-03-2018& deferred with observations namely- 1) to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions there under as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra. 2) to revise Fire Tender Movement planto access fire tender at least three sides of each building. 3) to revise and submit the Wind, Shadow, Thermal analysis report. 4) to declare campus as a plastic free zone (No Pet bottles, cutlery), PP to ensure that plastics used in packaging should be recycled. 5) to submit arrangement details for handling E-waste. 6) to explore possibility of use of excess treated water to other adjacent industry in MIDC. 7) not to train thenallah or undertake any construction on it. pp to leave adequate buffer zone from the nalla to enable nalla cleaning. 8) to revise and submit consolidated statement regarding Non FSI, TBA, Configuration, and Height of buildings. 9) to submit CFO NOC and HRC NOC. 10) to provide mechanical ventilation, Air purifier in the basement. 11) to submit details of demolition waste and its disposal plan. 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.

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DECISION OF SEAC

record.

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

Specific Conditions by SEAC:

1) PP to ensure that E-waste should be disposed of as per E-waste management rule 2016.
2) PP to obtain the NoC from Petroleum and Explosives Safety Organisation (PESO) for DG set, if required.
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

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Agenda of 128th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 128 **Meeting Date** February 12, 2020

Subject: Environment Clearance for For Residential Project with Public Parking Lot at Charni Road, Mumbai

Is a Violation Case: No

1.Name of Project	Ocean Towers
2.Type of institution	Private
3.Name of Project Proponent	M/s. Marine Drive Hospitality & Realty Pvt. Ltd.
4.Name of Consultant	Pollution & Ecology Control Services
5.Type of project	Housing project with Public Parking
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	Yes EC vide letter no. 11-113/2008/IA-III dated 10th August 2009
8.Location of the project	CS No. 2193, Near SK Patil Udyan, Maharshi Karve Road, Charni Road, Mumbai 400-002
9.Taluka	Mumbai
10.Village	Mumbai
Correspondence Name:	Mr. Jagdish Kadu
Room Number:	-
Floor:	-
Building Name:	DB House
Road/Street Name:	Gen A K Vaidya Marg
Locality:	Goregaon (E)
City:	Mumbai – 400063
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOD document
	IOD/IOA/Concession/Plan Approval Number: EB/1525/C/A
	Approved Built-up Area: 191543.07
13.Note on the initiated work (If applicable)	Partial excavation started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD document : EB/1525/C/A
15.Total Plot Area (sq. m.)	9309.94 sq m
16.Deductions	0
17.Net Plot area	9309.94 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 50273.62
	b) Non FSI area (sq. m.): 143653.25
	c) Total BUA area (sq. m.): 193926.87
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 48512.41
	Approved Non FSI area (sq. m.): 143030.66
	Date of Approval: 08-03-2018
19.Total ground coverage (m2)	5500.94
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	59.08%
21.Estimated cost of the project	17000000000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Tower 1	1st to 7th Basement + Ground floor + 1st to 7th Podium floors + club house floor + service floor + 10th to 67th Residential floors + Terrace (inclusive part refuge floors-10th, 17th, 26th,33rd, 42nd, 49th,58th, 65th, Service floors – 18th, 37th, 56th, Fire check floors – 19th, 38th, 57th)	290
2	Tower 2	1st to 7th Basement + Ground floor + 1st to 7th Podium floors + club house floor + service floor + 10th to 73rd Residential floors + Terrace (inclusive part refuge floors – 10th, 17th, 26th, 33rd, 42nd, 49th, 58th, 65th, Service floors – 18th, 37th, 56th, 66th, Fire check floors – 19th, 38th, 57th)	314.2

23.Number of tenants and shops	Total no. of Flats: 193 Nos.
24.Number of expected residents / users	1960
25.Tenant density per hectare	207 per hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	27.44 mt wide Maharshi Karve road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	minimum 9m
29.Existing structure (s) if any	NO
30.Details of the demolition with disposal (If applicable)	The existing structures on the site has been demolished and demolition waste has been disposed of as per the “Construction Demolition Waste (Management & Disposal) Rules 2016”

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	134
	Recycled water - Flushing (CMD):	82
	Recycled water - Gardening (CMD):	7
	Swimming pool make up (Cum):	285
	Total Water Requirement (CMD) :	223
	Fire fighting - Underground water tank(CMD):	Fire Water tank (Pvt.) - 415.54 m3/day , Fire Water tank (PPL) -189.11 m3/day
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	105
Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	134
	Recycled water - Flushing (CMD):	82
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	285
	Total Water Requirement (CMD) :	216
	Fire fighting - Underground water tank(CMD):	Fire Water tank (Pvt.) - 415.54 m3/day , Fire Water tank (PPL) -189.11 m3/day
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	112
Details of Swimming pool (If any)	Area of Swimming Pool: 319.75 m2, Depth: 0.89m, Location: Podium 8	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	0	134	134	0	20.17	20.17	0	114	114

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-6 m
	Size and no of RWH tank(s) and Quantity:	8 tanks (223.19 m3/day, 115.24 m3/day, 38.26 m3/day, 46.16 m3/day, 11.21 m3/day, 24.54 m3/day, 40.98 m3/day, 40.98 m3/day)
	Location of the RWH tank(s):	6 tanks on Basement 1 & 2 and 2 tanks on Basement 3
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	126 Lakhs
	Budgetary allocation (O & M cost) :	8 lakhs
	Details of UGT tanks if any :	Basement 1 & 2- Fire Water tank (Pvt.) - 415.54 m3/day , Fire Water tank (PPL) -189.11 m3/day, RWH tank 1 - 223.19 m3/day, RWH tank 2 -115.24 m3/day, RWH tank 3 - 38.26 m3/day, RWH tank 4 - 46.16 m3/day, RWH tank 5- 11.21 m3/day, RWH tank 6 - 24.54 m3/day Basement 3- RWH tank 7 - 40.98 m3/day RWH tank 8 - 40.98 m3/day Basement 6- Portable water tank 1 - 40.98 m3/day Basement 7- Portable water tank 2 - 40.98 m3/day
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through storm water drains of adequate capacity will be discharged into municipal SWD
	Quantity of storm water:	0.86 m3/sec
	Size of SWD:	450 mm wide drain with slope of 1: 300
Sewage and Waste water	**Sewage generation in KLD:**	196
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of capacity 220 m3/day
	Location & area of the STP:	Location of STP: Basement 1 & 2 and opening at the Ground, Area of STP- 325 m2
	Budgetary allocation (Capital cost):	35 Lakhs
	Budgetary allocation (O & M cost):	5-7 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	90 kg/day
	Disposal of the construction waste debris:	scrap material will be disposed to Authorized Vendor
Waste generation in the operation Phase:	**Dry waste:**	265.86 kg/day
	Wet waste:	473.1 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	4.4 CMD
	Others if any:	Not Applicable

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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 Organic Waste converter and In-Vessel Composter and used as Organic manure for landscaping
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Ground floor
	Area for the storage of waste & other material:	Composter area: 31.33 m2 and Garbage collection area: 19.31 m2
	Area for machinery:	Composter area: 31.33 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	22 Lakhs
	O & M cost:	3-4 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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43.Green Belt Development	**Total RG area :**	Total RG area: 1122.43 m2, RG on Ground: 718.69 m2 RG on Podium: 403.74 m2
	No of trees to be cut :	13
	Number of trees to be planted :	64
	List of proposed native trees :	Wad, Jangali Umbar, Pimpal, Chickoo, Champa, Weeping Fig, Golden Shower, Flame tree, Pink Shower, Sita ashoka
	Timeline for completion of plantation :	Not applicable

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ficus benghalensis	Wad	1	Baniyan tree has many traditional uses for example milky sap is applied externally for treating pain and bruses and is a remedy for tooth ache
2	Ficus racemosa	Jungali Umbar	1	The bark of the tree is said to have healing potential
3	Ficus Religiosa	Pimpal	1	Pipal is large, fast growing deciduous glabrous tree
4	Manikara zapota	Chikoo	2	Fruit bearing tree
5	Michelia champaca	Champa	5	Evergreen and bird attractive tree
6	Mimusopes elengi	Bakul	5	Evergreen and timber yielding, medicinal plants
7	Ficus benjamica	Weeping Fig	9	Evergreen and bird attracting tree
8	Cassica fistula	Golden Shower	6	Drought tolerant and medicinal plant
9	Butea monosperma	Flame tree	8	Used in pesticide and dye preparation
10	Cassica grandis	Pink Shower	4	Drought tolerant and medicinal plant
11	Saraca indica	Sita ashoka	3	Evergreen medicinal plant
12	Roystonea regia	Royal Palm	5	Nitrogen fixer and ornamental plant
13	Syzygium cumini	Jambhul	4	Fruit bearing and bird attracting tree
14	Neolamarkia cadamba	Kadamba Tree	5	Tropical fruit tree and bird attracting tree
15	Mangifera india	Mango tree	4	Evergreen and bird attracting 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	Natal lily	-	-
2	Big lily	-	-
3	Sonn Takka	-	-

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4	Fire bush	-	-
5	Adulasa	-	-
6	Nirgudi	-	-
7	Spider plant	-	-
8	Lantana	-	-
9	Mogra	-	-
10	Chitrak	-	-
11	Kunti	-	-
12	Broadleaf Lady palm	-	-
13	Wild jasmine	-	-
14	Shoe flower	-	-

47.Energy

Power requirement:	**Source of power supply :**	BEST
	During Construction Phase: (Demand Load)	1000 KVA
	DG set as Power back-up during construction phase	800 kVA x 1 No. for public car park + 1000 kVA x 2 Nos. for residential
	During Operation phase (Connected load):	10.23 MVA
	During Operation phase (Demand load):	6.6 MVA
	Transformer:	NA
	DG set as Power back-up during operation phase:	800 kVA x 1 No. for public car park + 1000 kVA x 2 Nos.for private car park
	Fuel used:	Low sulphur High speed diesel
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

- 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
- Solar street lights will be proposed
- Energy efficient lighting fixtures (LED lights) to all buildings

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	% energy saving w.r.t. energy consumed	16.84%
2	% of renewable w.r.t. energy saving	4%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

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Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50 Lakhs
	O & M cost:	6 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Barricading and dust suppression	Air pollution and Erosion control	5
2	Environmental Monitoring	Air, Water, Soil and Noise Monitoring	1.5
3	PPE for workers (gloves, spects, boots etc.)	site safety and health safety	4.6
4	bio-toilets and basins	site sanitation	3
5	Health Checkups	Health safety	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 (MBBR)	Waste water treatment	35 Lakhs	5-7 Lakhs
2	MSW	IVC and OWC	22 Lakhs	3-4 Lakhs
3	RWH	Rain water harvesting	126 lakhs	10 Lakhs
4	Landscape	RG area	40 Lakhs	3 Lakhs
5	DMP	safety measures	628 Lakhs	125 Lakhs
6	Solar Energy System	Renewable energy uses	50 lakhs	6 lakhs
7	Basement Air Cleaning System	-	156.87 Lakhs	23.5 Lakhs
8	Compliance Monitoring	Air, Water, Noise, Soil monitoring (as per MoEF)	-	1.5 Lakhs

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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	Nos. of the junction to the main road & design of confluence:	Entry and exit at 27.44 mt wide Maharshi Karve road, Entry and Exit at 18.30 mt wide Dr. Babasaheb Jaykar marg for MCGM Parking, Entry and Exit for Services at 12.20 mt wide S.K. Patil road
Parking details:	**Number and area of basement:**	Basement 1: 3856.33 m2, Basement 2: 4463.08 m2, Basement 3: 4441.08 m2, Basement 4: 4832.67m2, Basement 5: 4842.27 m2, Basement 6: 4782.61 m2, Basement 7: 4782.61 m2
	Number and area of podia:	Podium 1: 3621.77 m2, Podium 2: 3639.30 m2, Podium 3: 3641.56 m2, Podium 4: 3639.58 m2, Podium 5: 4355.20 m2, Podium 6: 4367.21 m2, Podium 7: 4357.26 m2, Podium 8: 4881.36 m2,
	Total Parking area:	16378.7 sq. m
	Area per car:	Basement 1: 63.21 m2, Basement 2: 68.66 m2, Basement 3: 51.64 m2, Basement 4: 43.93 m2, Basement 5: 42.47 m2, Basement 6: 41.95 m2, Basement 7: 39.20 m2, Podium 1: 49.61 m2, Podium 2: 49.85 m2, Podium 3: 49.88 m2, Podium 4: 47.26 m2, Podium 5: 42.69 m2, Podium 6: 42.81m2, Podium 7: 40.35 m2,
	Area per car:	Basement 1: 63.21 m2, Basement 2: 68.66 m2, Basement 3: 51.64 m2, Basement 4: 43.93 m2, Basement 5: 42.47 m2, Basement 6: 41.95 m2, Basement 7: 39.20 m2, Podium 1: 49.61 m2, Podium 2: 49.85 m2, Podium 3: 49.88 m2, Podium 4: 47.26 m2, Podium 5: 42.69 m2, Podium 6: 42.81m2, Podium 7: 40.35 m2,
	Number of 2-Wheelers as approved by competent authority:	320
	Number of 4-Wheelers as approved by competent authority:	772 Captive Parking
	Public Transport:	508 MCGM Parking
	Width of all Internal roads (m):	6 mt for 4 wheelers, 9 mt for CFO, 13 mt for HMV and LCV
	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	Category 8 (b)- B1
	Court cases pending if any	No
	Other Relevant Informations	The project was applied at MoEF &CC, Delhi level vide Proposal no. IA/MH/NCP/72869/2018 and ToR application was submitted on 14th February, 2018. The project was was transferred to SEIAA with New proposal No. SIA/MH/NCP/25648/2018 dated 17.4.2018
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

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SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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Representative of PP was present during the meeting along with environmental consultant M/s. Pollution and Ecological Control Services.

PP informed that, the project under consideration is new housing project with public parking project. PP further stated that, the total plot area of the project is 9309.94 Sq.mt having total construction area 193926.87 Sq.mt (FSI - 50273.62 Sq.mt + NON FSI- 143653.25 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Tower 1	1st to 7th Basement + Ground floor+ 1st to 7th Podium floors + club house floor + service floor + 10th Refuge floor + 11th to 16th residential floors + 17th Refuge floor + 18th Service floor + 19th Fire check floor + 20th to 25th residential floors+ 26th refuge floor + 27th to 32nd residential floors + 33rd refuge floor + 34th to 36th residential floors + 37th service floor + 38th fire check floor + 39th to 41st residential floors+ 42nd refuge floor + 43rd to 48th residential floors+ 49th refuge fl	290
Tower 2	1st to 7th Basement + Ground floor + 1st to 7th Podium floors + club house floor + service floor + 10th Refuge floor + 11th to 16th residential floors + 17th Refuge floor + 18th Service floor + 19th Fire check floor + 20th to 25th residential floors + 26th refuge floor + 27th to 32nd residential floors + 33rd refuge floor + 34th to 36th residential floors + 37th service floor + 38th fire check floor + 39th to 41st residential floors+ 42nd refuge floor + 43rd to 48th residential floors+ 49th refuge fl	314.2

It is noted that the project earlier considered in SEAC-2 113th Meeting held 23-09-2019 & decided to refer the matter to SEIAA as excavation up to a depth of 23.14 mtrs for 3 basements as mentioned in EC were found of disproportionate depth and not supported by any authentic document of the local body and therefore the committee found that prima facie this much depth has been carried out without EC and therefore referred the case to for further necessary action.

It is further noticed that the case was considered by SEIAA in its 182nd Meeting held on 06-12-2019 & in 183rd SEIAA Meeting held on 12-12-2019 & SEIAA decided to refer back the proposal to SEAC-2 for appraisal stating

"The project u/r was proposed to be developed as a 5-Star Category Hotel Project. Since the project attracted the provisions of the EIA Notification 2006, Project Proponent obtained an Environmental Clearance vide letter bearing no. 11-113/2008/IA-III dated 10th August 2009. The said EC was obtained for 1,59,561 Sq.mt with 3 Basements. However the depth of the basements is not mentioned in the said EC. PP has claimed to have obtained the said earlier EC with 3 Basements having total depth of 23.14 mtrs. Subsequently, PP had obtained an IOD for the said 5-Star Category Hotel Project from the MCGM vide letter bearing no. EB/1525/C/A dated 19.01.2010 with 3 Basements having total depth of 23.14 mtrs. The approved plans with the said IOD have been produced before the Authority and the same have been thoroughly checked and verified. Point No. 14 in the said IOD states 'That MoEF Clearance from environment point of view for the total built up area above 1,59,561 Sq.Mt. shall be submitted' And Point No. 50 in the IOD provides the reference of the EC bearing no. 11-113/2008/IA-III dated 10th August 2009. It is therefore clear that the plans submitted while obtaining the EC dated 10.08.2009 are the same that have been approved by the MCGM vide the IOD dated 19.01.2010. As further informed by the PP, due to commercial viability, the project is now proposed to be developed entirely as Residential Project by accommodating 7 Basements in the same approved Depth 23.14 mtrs. Accordingly, the PP had applied for a fresh approval under the EIA Notification 2006 and amendment thereof for the proposed Residential Project. Subsequently, Project was heard in the 66th, 81st& 98th SEAC II meetings. Since the excavation was already carried out on the site in the year 2010-2011, the reference of Old EC was required to be made during the hearings to the SEAC-II. Since excavation was already carried out on the site, SEAC-II decided to conduct a Site Visit and the same was mentioned in the minutes of the 98th SEAC-II meeting. Accordingly, Site visit was conducted on 23rd Sept. 2019 prior to 113th SEAC-II Meeting. During the Site Visit, the concern raised was regarding the Excavation up to 23.14 mtrs without Valid EC. The minutes of meeting was accordingly published by the SEAC-II wherein they cited that the excavation up to a depth of 23.14 mtrs may have been carried out without valid EC and therefore the case prima facie appeared to be violation case. The SEAC-II therefore referred the case to SEIAA to ascertain whether PP has violated any provisions under the EIA Notification 2006 and amendments thereof. The project u/r reference was discussed in SEIAA and the PP has furnished all the appropriate documents like the Old EC, Old IOD & its Plan and also have successfully established that the plans that were used to obtain the old EC are the same plans that have been approved and issued by the MCGM vide the IOD dated 19.01.2010. It is thus clear that the excavation carried out on the site for a depth of 23.14 mtrs was with valid environmental clearance and in concurrence with the approval granted by the MCGM vide the IOD dated 19.01.2010. As per the DC rules of MCGM there is no restriction on the height of the basement. After considering above clarifications of the PP, it seems that the PP has not violated any provisions of the EIA Notification 2006 and amendments thereof.

SEIAA Decision-

It is hereby instructed that, the PP's case be taken up for hearing in the immediate upcoming meeting of the SEAC-2 and the same be appraised. As there are specific directions given to this committee to consider & appraise it, therefore in accordance with these directions, the proposal is appraised by SEAC-2 now with respect to environmental parameters only as the depth issue of basement is since decided by SEIAA.

SEAC-II-EDA-0000000401

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

SEAC-AGENDA-000000401

It is noted that the project earlier considered in SEAC-2 113th Meeting held 23-09-2019 & decided to refer the matter to SEIAA as excavation up to a depth of 23.14 mtrs for 3 basements as mentioned in EC were found of disproportionate depth and not supported by any authentic document of the local body and therefore the committee found that prima facie this much depth has been carried out without EC and therefore referred the case to for further necessary action.

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SEIAA Decision-

It is hereby instructed that, the PP's case be taken up for hearing in the immediate upcoming meeting of the SEAC-2 and the same be appraised. As there are specific directions given to this committee to consider & appraise it, therefore in accordance with these directions, the proposal is appraised by SEAC-2 now with respect to environmental parameters only as the depth issue of basement is since decided by SEIAA.

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.

In view of detailed discussion above, after fresh appraisal with reference to environmental parameters except depth issue the committee decided to recommend the proposal for Environmental Clearance to SEIAA, subject to compliance of above points.

Specific Conditions by SEAC:

1) PP to abide & include the all the suggestion/ recommendation given in the Geotechnical, geo-hydrological reports as vetted by NEERI.
2) PP to use maximum treated waste water to reduce disposal to maximum 35% to municipal sewer network.
3) PP to increase the solar energy saving to 5%.
4) PP to ensure that proposed STP should be 40% open to sky for adequate ventilation.
5) PP to obtain CFO and HRC NoCs.
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 for green field project and undertakes activities 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

SEAC-AGENDA-UNCONFIRM

Agenda of 128th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 128 **Meeting Date** February 12, 2020

Subject: Environment Clearance for "Guru Atman" on Land Bearing S. No. 20, 21, H. No. 1/1,& 1/ 2, S No. 24, H. No. 1 A & 1B at village Gauripada, Taluka - Kalyan, District – Thane, Maharashtra by Guru Ashish Corporation.

Is a Violation Case: No

1.Name of Project	"Guru Atman" on Land Bearing S. No. 20, 21, H. No. 1/1,& 1/ 2, S No. 24, H. No. 1 A & 1B at village Gauripada, Taluka - Kalyan, District – Thane, Maharashtra by Guru Ashish Corporation.
2.Type of institution	Private
3.Name of Project Proponent	M/s. Guru Ashish Corporation
4.Name of Consultant	Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	Residential cum commercial
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC letter vide SEAC 2016/CR/ 69/ TC 1, dated 3rd Dec 2016.
8.Location of the project	on Land Bearing S. No. 20, 21, H. No. 1/1,& 1/ 2, S No. 24, H. No. 1 A & 1B at village Gauripada, Taluka - Kalyan, District – Thane, Maharashtra
9.Taluka	Kalyan
10.Village	Gauripada
Correspondence Name:	Mr Haresh Changela
Room Number:	A 205
Floor:	Second floor
Building Name:	Western Edge II
Road/Street Name:	Off Western Express Highway
Locality:	Borivali East
City:	Mumbai 400066
11.Whether in Corporation / Municipal / other area	KalyanDombivali Municipal Corporation (KDMC)
12.IOD/IOA/Concession/Plan Approval Number	yes
	IOD/IOA/Concession/Plan Approval Number: KDMC – 2018-19/36
	Approved Built-up Area: 38948.67
13.Note on the initiated work (If applicable)	Wing C, D, E, F, G with configuration of Gr floor Stilit + 1st floor podium & Stilt (pt) + 18thfloor constructed as per EC dated 3rdDec 2016.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Revised CC from KDMC dated 31/10/2018
15.Total Plot Area (sq. m.)	60,390.00 sq m
16.Deductions	40,164 sq m
17.Net Plot area	20,226 sq m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 38,948.67
	b) Non FSI area (sq. m.): 34592.84
	c) Total BUA area (sq. m.): 73541.51
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 38948.67
	Approved Non FSI area (sq. m.): 34592.84
	Date of Approval: 31-10-2018
19.Total ground coverage (m2)	7887.12
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	45
21.Estimated cost of the project	1270000000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A & B	Gr (pt) / Stilt (pt) + 23 floors	69.97
2	Wing C, D, E, F, G	Gr floor Stilit + 1st floor podium & Stilt (pt) + 18th floor	57.80
3	Wing H	St + 7 floors	23.31

23.Number of tenants and shops	Residential: 763 flats 24 shops
24.Number of expected residents / users	Residential: 3815 nos. Shops: 72 nos.
25.Tenant density per hectare	130
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	the site has access through 30 m, 12 m, 18 m and 30 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Wing C, D, E, F, G with configuration of Gr floor Stilit + 1st floor podium & Stilt (pt) + 18thfloor constructed as per EC dated 3rd Dec 2016.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	KDMC, Recycled water
	Fresh water (CMD):	345
	Recycled water - Flushing (CMD):	175
	Recycled water - Gardening (CMD):	15
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	535
	Fire fighting - Underground water tank(CMD):	Existing building C to G: 300 cum Proposed Wing A, B: 300 cum
	Fire fighting - Overhead water tank(CMD):	Existing building C to G: 25 cum for each wing Proposed Wing A, B& H: 25 cum for each wing
	Excess treated water	231 KLD
Wet season:	**Source of water**	KDMC, Recycled water + RWH
	Fresh water (CMD):	345
	Recycled water - Flushing (CMD):	175
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	520
	Fire fighting - Underground water tank(CMD):	Existing building C to G: 300 cum Proposed Wing A, B: 300 cum
	Fire fighting - Overhead water tank(CMD):	Existing building C to G: 25 cum for each wing Proposed Wing A, B & H: 25 cum for each wing
	Excess treated water	246 KLD
Details of Swimming pool (If any)	ONE SWIMMING POOL	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4 - 5.50 m
	Size and no of RWH tank(s) and Quantity:	Existing: 257 cum &Proposed: 20 cum and 2 nos.
	Location of the RWH tank(s):	Under Ground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs 22 lakhs
	Budgetary allocation (O & M cost) :	Rs 2.5 lakhs
	Details of UGT tanks if any :	Wing A, B: 2 nos. Wing C to G: 5 nos. Wing H: 1 no.
35.Storm water drainage	**Natural water drainage pattern:**	North East to South East
	Quantity of storm water:	1.35 m3/sec
	Size of SWD:	0.6 m x 0.6 m
Sewage and Waste water	**Sewage generation in KLD:**	468
	STP technology:	MBBR
	Capacity of STP (CMD):	480
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	Rs. 90 lakhs
	Budgetary allocation (O & M cost):	Rs. 7 lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Empty cement bags: 29417 nos.; Steel: 4.4 MT; Aggregates: 8.8 MT; Broken Tiles: 1052 sq m; Empty Paint Cans (20 litre/ can): 1103 nos.
	Disposal of the construction waste debris:	Empty cement bags: To be handed over to local recyclers; Steel: To be handed over to local recyclers; Aggregates: To be used as a layer for internal roads and building boundary wall; Broken tiles: Waste tiles to be used as china mosaic for terrace; Empty paint cans: To be sold
Waste generation in the operation Phase:	**Dry waste:**	774 kg/day
	Wet waste:	1150 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	23 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Will be handed over to recyclers
	Wet waste:	Biodegradable waste will be processed in OWC and manures obtained will be used for landscaping
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	WILL BE USED AS MANURE
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	72 sq m
	Area for machinery:	6 sq m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 25 lakhs
	O & M cost:	Rs 6 lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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43.Green Belt Development	**Total RG area :**	3033.90 sq m
	No of trees to be cut :	NA
	Number of trees to be planted :	205 nos.
	List of proposed native trees :	As given below
	Timeline for completion of plantation :	before completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Alstonia scholaris	Alstonia	3	tropical
2	Delonix regia	Gulmohar	40	tropical and flowering
3	Azadirachta indica	Kadu Neem	5	medicinal
4	Ficus religiosa	Pipal	1	tropical
5	Cassia fistula	kesia	1	flowering
6	Vachellia nilotica	babul	1	tropical
7	Prunus dulcis	badam	1	flowering
8	Alstonia scholaris	takobia	1	tropical
9	Areca catechu	supari	28	flowering
10	Cocos nucifera	Coconut	49	flowering
11	Wodyetia bifurcata	Fox tail palm	71	tropical
12	Ficus benghalensis	vad	4	medicinal
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	80 kW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	5600.13 kW
	During Operation phase (Demand load):	2965.57 kW
	Transformer:	YES
	DG set as Power back-up during operation phase:	4 x 62.5 KVA, 5 x 40 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	yes, O/H 110 MW high tension line height: 9.782 m

48.Energy saving by non-conventional method:

100% through solar hot water
LED lights
Solar Stand alone
Using High efficient pump
VFD's on Lifts
Using BEE Star rating equipment.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total % Savings	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 2.2 crores
	O & M cost:	Rs 6 lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	5
2	Noise Environment	Noise Barricades and Green Belt Developments	2

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3	Water Environment	Modular STP, Drainage with sedimentation tanks	1
4	Good Health Practices	Site Sanitation & Health Care	1
5	Environment Monitoring	Air, water, noise soil monitoring during construction phase	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	Rain Water Harvesting	RWH tanks	22	2
2	Waste Water management	STP	90	7
3	Solid waste management	OWC	25	6
4	Landscaping	Green Belt Development	10	2
5	Energy conservation	Energy savings	220	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:	The project is connected by 30 m& 18 m wide DP road

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Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	1 no. & 4636.45 sq m
	Total Parking area:	4884 sq m
	Area per car:	13.2 sq m
	Area per car:	13.2 sq m
	Number of 2-Wheelers as approved by competent authority:	100 nos.
	Number of 4-Wheelers as approved by competent authority:	370 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Plot is partly affected by CRZ, the project lies in CRZ III zone.
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (b)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

SEAC AGENDA-00000000401

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

PP informed that, the project under consideration expansion residential cum commercial project. PP further stated that, the total plot area of the project is 60,390.00 Sq.mt having total construction area 73541.51 Sq.mt (FSI - 38,948.67 Sq.mt + NON FSI- 34592.84 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Wing A & B	Gr (pt) / Stilt (pt) + 23 floors	69.97
Wing C, D, E, F, G	Gr floor Stilit + 1st floor podium & Stilt (pt) + 18th floor	57.80
Wing H	St + 7 floors	23.31

It is noted that, Project has received Environmental clearance vide letter dated 3rd Dec 2016.

It is noted that the project earlier considered in SEAC-2 115th Meeting held on 04-10-2019 & deferred with observations namely- 1) As shown during the presentation, PP to upload the Layout showing location of services including environmental infrastructure on the website immediately. PP to produce the same to SEIAA. 2) to submit the explanatory note regarding increase in net plot area. 3) Committee noted that, the area affected by CRZ & green belt is now only 3250 sq. mt. As as per the earlier NOC from MCZMA, an area of 4463 sq.mt. was to be excluded from development being in CRZ and now that only 3250 sq.mt. area is proposed by PP for exclusion from development on the ground of being in CRZ, the PP to obtain fresh NOC from MCZMA. 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,

DECISION OF SEAC

record.

SEAC AGENDA-00000004401

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

Specific Conditions by SEAC:

1) PP to obtain the MCZMA NoC, if required.
2) Local planning authority to ensure the structural stability of building for which vertical expansion is proposed
3) Environment consultant to certify that the capacity of existing STP is sufficient to treat additional load.
4) PP to ensure that maximum 35 % of the total treated water in STP is discharged to municipal drain system and rest 65% recycled in the project.
5) PP to submit dated Architect certificate addressing to committee regarding building wise construction (Configuration, FSI, NoN-FSI, TBUA) approvals from local Authority, actual construction done and proposed expansion.
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

SEAC-AGENDA-0000000401

Agenda of 128th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 128 **Meeting Date** February 12, 2020

Subject: Environment Clearance for for proposed development of Residential cum commercial project on Plot bearing S. No. Plot bearing new C.T.S. No. 1a (pt.) , and old C.T.S. No. 1 (pt.) survey no. 41 (pt.) of village Oshiwara, link road, Andheri (W), Mumbai By Devland Infracon Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Devland Infracon Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Devland Infracon Pvt. Ltd.
4.Name of Consultant	Dr. D. A. Patil, Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Housing project (MHADA)
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing new C.T.S. No. 1a (pt.) and old C.T.S. No. 1 (pt.) survey no. 41 (pt.) of village Oshiwara, link road, Andheri (W), Mumbai.
9.Taluka	Mumbai
10.Village	Oshiwara
Correspondence Name:	Mr. Yogesh Shah, Devland Infracon Pvt. ltd.
Room Number:	-
Floor:	10th Floor
Building Name:	Dev Plaza, Plot No-68, Opp Andheri Fire Brigade
Road/Street Name:	S V Road
Locality:	Opp Andheri Fire Brigade
City:	Andheri (W), Mumbai
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	EE/BP CELL/GM/MHADA-113/397/2019
	IOD/IOA/Concession/Plan Approval Number: EE/BP CELL/GM/MHADA-113/397/2019
	Approved Built-up Area: 48894.89
13.Note on the initiated work (If applicable)	No work started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI approved on 12/06/2019
15.Total Plot Area (sq. m.)	3,688.19 m2
16.Deductions	-
17.Net Plot area	3,688.19 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 27,149.83 m2
	b) Non FSI area (sq. m.): 35,807.85 m2
	c) Total BUA area (sq. m.): 62957.68
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 17,950.18 m2
	Approved Non FSI area (sq. m.): 30,944.71 m2
	Date of Approval: 22-10-2019
19.Total ground coverage (m2)	1,970.53 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	61.37%
21.Estimated cost of the project	2510000000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No. 1	G + 10 P + Service floor + 11th, 12th & 14th to 40th residential (29 habitable floors) + 41st fitness centre	119.90

23.Number of tenants and shops	• Flats: 223 Nos. • Shops: 16 Nos.
24.Number of expected residents / users	1,163 Nos.
25.Tenant density per hectare	696/Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The project is accessible by 13.00 m wide Best Colony Road and 9.00 m wide off New Link Road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	102 KLD
	Recycled water - Flushing (CMD):	51 KLD
	Recycled water - Gardening (CMD):	2 KLD
	Swimming pool make up (Cum):	5 KLD
	Total Water Requirement (CMD) :	158 KLD
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	88 KLD
Wet season:	**Source of water**	MCGM + RWH
	Fresh water (CMD):	88 + 14 KLD
	Recycled water - Flushing (CMD):	51 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	5 KLD
	Total Water Requirement (CMD) :	158 KLD
	Fire fighting - Underground water tank(CMD):	As per NBC
	Fire fighting - Overhead water tank(CMD):	As per NBC
	Excess treated water	90 KLD
Details of Swimming pool (If any)	Swimming pool is provided	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Ground water table at depth of 3 to 4 m
	Size and no of RWH tank(s) and Quantity:	1 Nos. of RWH Tank with the total 40 m3 of capacity
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 9 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.5 Lakh/year
	Details of UGT tanks if any :	Underground
35.Storm water drainage	**Natural water drainage pattern:**	Towards South west side of the plot
	Quantity of storm water:	418.46 m3/hr
	Size of SWD:	400 x 500 mm wide internal SWD drain.
Sewage and Waste water	**Sewage generation in KLD:**	143 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of total capacity 150 KLD
	Location & area of the STP:	Ground (Area of STP: 90.00 m2)
	Budgetary allocation (Capital cost):	Rs. 40 Lakh
	Budgetary allocation (O & M cost):	Rs. 10 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: 1,815 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:**	227 kg/d
	Wet waste:	340 kg/d
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	1 m3/day
	Others if any:	Household E-waste generation

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Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be handed over to authorized recyclers.
	Wet waste:	Wet garbage will be composted using Mechanical Composting unit and will be used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge will be used as manure for gardening
	Others if any:	Household E-waste generation will be handed over to authorized recyclers.
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	40 m2
	Area for machinery:	20 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 16 Lakh
	O & M cost:	Rs. 6 Lakh/yr

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	Proposed development is a part of MHADA layout. The layout RG has been already provided. However we have provided 402.11 m2 landscape area in our plot.
	No of trees to be cut :	Existing trees on site: 20 Nos., Trees to be cut: Nil
	Number of trees to be planted :	40 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	ERYTHRINA INDICA	Pangara	5	As medicinal value, Bird and insect attractive.
2	LAGERSTROEMIA SPECIOSA	Bakul	4	Edible, mature fruit as medicinal value, Bird and insect attractive.
3	MIMUSOP ELENGI	Tamhan	3	As medicinal value, Bird and insect attractive.
4	PONGAMIA PINNATA	Karanj	4	Valued for its oil and insect repellent, having medicinal value.
5	SARACA INDICA	Sita Ashok	5	As medicinal value, Bird and insect attractive.
6	ANTHOCEPHALUS CADAMBA	Kadamba	3	Shady, large tree, ball shaped flowers.
7	AZADIRACHTA INDICA	Neem	3	Semi-evergreen tree with medicinal value
8	BAUHINIA PURPUREA	Apta	2	Small tree with small white flowers, Butterfly host plant
9	MILLINGTONIA HORTENSIS	Indian cork tree	4	Evergreen Tree
10	NYCTANTHES ARBOR TRISTIS	Parijat	3	Small deciduous fast growing tree, beautiful flowers.
11	POLYALTHIA LONGIFOLIA	Ashoka Tree	4	Shady tree with red-yellow flowers.
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	Adani Power
	During Construction Phase: (Demand Load)	200 kVA
	DG set as Power back-up during construction phase	200 kVA
	During Operation phase (Connected load):	5.4 MW
	During Operation phase (Demand load):	2.2 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	500 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NIL

48.Energy saving by non-conventional method:

Solar Hot water to Residential Buildings,
Solar Street lighting in landscape, common area passages

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy savings	22.2%

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. 15 Lakh
	O & M cost:	Rs. 0.6 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	-	6
3	Potable Water Supply to Labour	-	8
4	Solid waste management	-	5
5	Disinfection	-	4

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6	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves etc.)	10
7	Traffic Management (Sign Boards, Persons, at entry exit and Parking area)	-	6
8	Safety nets	-	20
9	Tyre cleaning and Vehicle maintenance	-	5
10	Safety Training to Workers (Twice in Year), Safety Officer	-	9
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)	Continuous O & M	40	10
2	Solar System	Weekly	15	0.8
3	Rainwater harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	9	0.5
4	Solid Waste Composting plant	Continuous O & M	16	6
5	Landscape	Daily	6	0.6
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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	Nos. of the junction to the main road & design of confluence:	The project is accessible by 13.00 m wide Best Colony Road and 9.00 m wide off New Link Road.
Parking details:	**Number and area of basement:**	Not Provided
	Number and area of podia:	10 Podiums area: 22,187.10 m2
	Total Parking area:	9,687.5 m2
	Area per car:	30 m2
	Area per car:	30 m2
	Number of 2-Wheelers as approved by competent authority:	163 Nos.
	Number of 4-Wheelers as approved by competent authority:	266 Nos.
	Public Transport:	-
	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	Sanjay Gandhi National Park : 5 km approx
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	15-09-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

SEAC AGENDA-00000000401

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

PP informed that, the project under consideration is new housing project (MHADA) project. PP further stated that, the total plot area of the project is 3,688.19 Sq.mt having total construction area 62957.68 Sq.mt (FSI - 27,149.83 Sq.mt + NON FSI- 35,807.85 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Building No. 1	G + 10 P + Service floor + 11th, 12th & 14th to 40th residential (29 habitable floors) + 41st fitness centre	119.90

It is noted that the project earlier considered in SEAC-2 103rd (Day-1) Meeting held on 20-06-2019 & deferred with observations namely- 1) stated that there is change in CS, PP circulated the revised CS. PP to revise the online CS with respect to Sr.NO 18 & 22 only. 2) to submit the letter received from local planning authority regarding demolition of existing building. 3) It is noted that in the original C.S. the height of building was mentioned around 133 meter; in revised C.S. submitted today it is mentioned around 119 meter; whereas in the latest plan submitted to MHADA on 9.6.2019, it is mentioned around 110 meter. Thus it is not clear as to which height the PP is going for and for which height EC is to be granted. The PP and Consultant to submit explanation for same 4) Committee noted that, the kindergarten is proposed on 41st floor, PP to rethink the location of kinder garden with respect to safety of children. 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.

SEAC-AGENDA-0000000401

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

Specific Conditions by SEAC:

1) PP to ensure that 41st floor is not used as Kindergarten.
2) PP to clearly mention that 13th floor is not existing, therefore there will be total 40 floor building instead of 41 floors.
3) PP to submit certificate from MHADA regarding central RG provided for the zone.
4) PP to ensure that, landscape area provided should be treated as insitu RG for the project only.
5) PP to ensure that slop of the ramp should be at least 1:10 instead of 1:8.
6) PP to provide to cover minimum 25 % of total parking arrangement with electric charging stations by providing charging points at suitable places.
7) PP to obtain the CFO NoC for proposed height of 119.90.
8) 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.
9) 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

SEAC-AGENDA-0000000401

Agenda of 128th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 128 **Meeting Date** February 12, 2020

Subject: Environment Clearance for "Naman Premier" (Amendment in EC) At Marol Andheri (East), Mumbai

Is a Violation Case: No

1.Name of Project	"Naman Premier"
2.Type of institution	Private
3.Name of Project Proponent	M/s. Shree Naman Developers Pvt Ltd.
4.Name of Consultant	Ultra-Tech
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Received Environmental Clearance dated 23rd June 2015
8.Location of the project	304, 305, 317, 322 of Marol Village, Premier Textile Processor, Military Road, Marol Andheri (E), Mumbai -400059
9.Taluka	Andheri
10.Village	Marol
Correspondence Name:	Mr. Debashis Mitra
Room Number:	C-31
Floor:	--
Building Name:	Naman Centre -Bandra Kurla Complex
Road/Street Name:	--
Locality:	Bandra (E),
City:	Mumbai – 400051
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	Concession received on dated 01.09.2017
	IOD/IOA/Concession/Plan Approval Number: CHE/WS/0442/K/337(New)
	Approved Built-up Area: 21925.01
13.Note on the initiated work (If applicable)	Total constructed work (FSI+ Non FSI): 11,500 Sq. mt.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	CHE/WS/0442/K/337(New)
15.Total Plot Area (sq. m.)	8959.50
16.Deductions	2265.41
17.Net Plot area	6694.09
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 21925.01
	b) Non FSI area (sq. m.): 38090.74
	c) Total BUA area (sq. m.): 60015.75
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 21925.01
	Approved Non FSI area (sq. m.): 38090.74
	Date of Approval: 09-01-2017
19.Total ground coverage (m2)	3270.36
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49
21.Estimated cost of the project	3752900000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building-1 Wing A	3Basement + Stilt + 3Podia + 4 to 18 upper floors + 19 pt floor	62.08 (Upto terrace level)
2	Building-1 Wing B	3Basement + Stilt + 3Podia + 4 to 19 upper floors	62.08 (Upto terrace level)
3	Building-1 Wing C	3Basement + Stilt + 3Podia + 4 to 19 upper floors	62.08 (Upto terrace level)
4	Building-1 Wing D	3Basement + Stilt + 3Podia + 4 to 18 upper floors + 19 pt floor	62.08 (Upto terrace level)
5	Building-1 Wing E	3Basement + Stilt + 3 Podia + 4 to 18 upper floors	59.04 (Upto terrace level)
6	Building-1 Wing F	3Basement + Stilt + 3 Podia + 4 to 18 upper floors	59.04 (Upto terrace level)

23.Number of tenants and shops	423
24.Number of expected residents / users	1919
25.Tenant density per hectare	632/ 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 Military road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Will be Submitted
29.Existing structure (s) if any	There was a closed down processing unit of M/s. Premier Textile Processors, which has been demolished.
30.Details of the demolition with disposal (If applicable)	The debris has been already disposed to authorized site with permission from 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

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Dry season:	**Source of water**	M.C.G.M. / Tanker water
	Fresh water (CMD):	173 KLD
	Recycled water - Flushing (CMD):	86 KLD
	Recycled water - Gardening (CMD):	9 KLD
	Swimming pool make up (Cum):	1 KLD
	Total Water Requirement (CMD) :	269 KLD
	Fire fighting - Underground water tank(CMD):	300 KL
	Fire fighting - Overhead water tank(CMD):	50 KL
	Excess treated water	107 KLD
Wet season:	**Source of water**	M.C.G.M./ Rain Water Harvesting (RWH) / Tanker Water
	Fresh water (CMD):	173 KLD
	Recycled water - Flushing (CMD):	86 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	1 KLD
	Total Water Requirement (CMD) :	260 KLD
	Fire fighting - Underground water tank(CMD):	300 KL
	Fire fighting - Overhead water tank(CMD):	50 Kl
	Excess treated water	116 KLD
Details of Swimming pool (If any)	Volume of Swimming pool is 95 m3	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Below 1.5 mt. to 2.10 mt.
	Size and no of RWH tank(s) and Quantity:	1 RWH tank of capacity 80 KL
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	Provision of shallow trenches of length 78 mt.
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	25.50 Lacs
	Budgetary allocation (O & M cost) :	1.68 Lacs/annum
	Details of UGT tanks if any :	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 to external drain.
	Quantity of storm water:	0.22 m3/sec
	Size of SWD:	0.45 m3/sec
Sewage and Waste water	**Sewage generation in KLD:**	225
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of 250 KLD
	Location & area of the STP:	Basement level
	Budgetary allocation (Capital cost):	48.78 Lacs
	Budgetary allocation (O & M cost):	12.25 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated material 13250.00 Cum. has been reused for backfilling and 52580.00 Cum has been disposed to authorized sites.
	Disposal of the construction waste debris:	Construction waste generated partly used for filling and partly shall be disposed by covered trucks to the authorized sites with permission from M.C.G.M.
Waste generation in the operation Phase:	**Dry waste:**	518 Kg/day
	Wet waste:	345 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	34 Kg/day
	Others if any:	--

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Mode of Disposal of waste:	**Dry waste:**	To authorized recyclers
	Wet waste:	Organic Waste Converters (OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	As manure
	Others if any:	--
Area requirement:	**Location(s):**	Ground Level
	Area for the storage of waste & other material:	35 sq. m.
	Area for machinery:	12 sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	9.00 Lacs
	O & M cost:	1.98 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	--	--	--	--	--	--

40.Details of Fuel to be used

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

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

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43.Green Belt Development	**Total RG area :**	1339.69
	No of trees to be cut :	13 Nos.
	Number of trees to be planted :	39 Nos.
	List of proposed native trees :	As given below in List of proposed plantation on ground
	Timeline for completion of plantation :	Before occupation

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Tabebuia rosea	Rosy trumpet tree	6	Used as medicine in treatment of anemia and constipation
2	Peltophorum pterocarpum	Copper Pod	5	Ornamental tree, The wood has a wide variety of uses, including cabinet-making
3	Delonix regia	Gulmohar	7	Ornamental and Flowering Tree
4	Alstonia scholaris	Saptaparni	7	Evergreen tropical tree. Used as astringent tonic, anthelmintic, and antiperiodic
5	Saraca asoca	Sita Ashoka	7	Evergreen tree, with deep green leaves growing in dense clusters. Have beautiful foliage and fragrant flowers.
6	Lagerstroemia indica	Crape Myrtle	7	Colorful and long-lasting flowers
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	5936 KW
	During Operation phase (Demand load):	2441 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	2 D.G. set of capacity 500 kVA each
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

• Use of BEE certified motors timer controlled operation
• Use of T5 fittings & Electronic ballast instead of Fluorescent Light Fittings & copper ballasts.
• External lighting on solar with LED lamps & timer controlled operation for reducing amount of light at different stages as per requirement
• Provision of high efficiency five star rated pumps with level sensors for STP
• Use solar based standalone street Light Fixture
• Provision of PV panels on Residential Building Terrace to feed the common area lighting of the building

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	oveall Energy Saving %	20.5 %
2	Saving Due to Renewable Energy	6 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	12.48 Lacs
	O & M cost:	0.25 Lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust suppression	5.40
2	Air Environment	Air & Noise monitoring- Sensors for Air and Noise quality monitoring	12.50

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3	Air Environment	Air & Noise monitoring-By outside MOEF Approved Laboratory	1.10
4	Water Environment	Drinking water analysis	0.90
5	Land Environment	Site Sanitation	5.0
6	Health & Hygiene	Disinfection- Pest Control	6.00
7	Health & Hygiene	Health Checkup of workers	22.50
8	Cost towards Disaster management	--	2.84

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, Noise Environment & Biological Environment	Cost for Gardening	7.37	1.20
2	Air, Noise Environment & Biological Environment	Cost for Ambient air & Noise Monitoring	*No set up cost is involved	0.22
3	Air, Noise Environment & Biological Environment	Maintenance of sensors - Air & Noise	Set up already considered in construction phase	0.50
4	Air, Noise Environment & Biological Environment	Cost for DG Stack Exhaust Monitoring	*No set up cost is involved	0.10
5	Water Environment	Waste water treatment - Waste water treatment	30.78	11.25
6	Water Environment	Waste water treatment -Cost for Waste water Monitoring- On site Sensors	18.00	1.00
7	Water Environment	Waste water treatment -Cost for Waste water Monitoring-By outside MOEF Approved Laboratory	*No set up cost is involved	0.03
8	Water Environment	Water Conservation (Rain Water Harvesting System) - Cost for RWH tanks	12.50	0.63
9	Water Environment	Water Conservation (Rain Water Harvesting System) - Cost for treatment unit for rain water tanks	3.00	0.01

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10	Water Environment	Water Conservation (Rain Water Harvesting System) - Cost for Rainwater Monitoring	*No set up cost is involved	0.05
11	Water Environment	Trenches	10.00	1.00
12	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage in OWC	9.00	1.90
13	Land Environment (Solid Waste Management)	Cost for monitoring of organic manure	*No set up cost is involved	0.08
14	Energy Conservation	Solar System	12.48	0.25
15	Cost towards Disaster management	--	1049	36.00

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:	Three entry and exit to the main road.

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Parking details:	**Number and area of basement:**	3 Nos.
	Number and area of podia:	3 Nos.
	Total Parking area:	5234.89 Sq. mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	161 Nos.
	Number of 4-Wheelers as approved by competent authority:	484 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 mt. wide internal roads.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park: Within 2.60 Km
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	NA
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	17-04-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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Representative of PP was present during the meeting along with environmental consultant. M/s. Ultra-Tech.

PP informed that, the project under consideration amendment in EC housing project. PP further stated that, the total plot area of the project is 8959.50 Sq.mt having total construction area 60015.75 Sq.mt (FSI - 21925.01 Sq.mt + NON FSI- 38090.74 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Building-1 Wing A	3Basement + Stilt + 3Podia + 4 to 18 upper floors + 19 pt floor	62.08 (Upto terrace level)
Building-1 Wing B	3Basement + Stilt + 3Podia + 4 to 19 upper floors	62.08 (Upto terrace level)
Building-1 Wing C	3Basement + Stilt + 3Podia + 4 to 19 upper floors	62.08 (Upto terrace level)
Building-1 Wing D	3Basement + Stilt + 3Podia + 4 to 18 upper floors + 19 pt floor	62.08 (Upto terrace level)
Building-1 Wing E	3Basement + Stilt + 3 Podia + 4 to 18 upper floors	59.04 (Upto terrace level)
Building-1 Wing F	3Basement + Stilt + 3 Podia + 4 to 18 upper floors	59.04 (Upto terrace level)

It is noted that, Project has received Environmental clearance vide letter dated 23rd June 2015.

It is noted that the project earlier considered in SEAC-2 126th Meeting held on 04-10-2019 & deferred with observations namely- 1) Committee noted that, the building configuration approved in earlier EC was 1 building with 6 wings- 3B +G +13 floors each but as per architect certificate submitted by PP, the building configuration mentioned as 3B+ stilt+ 3 podium +1 to 5th floor. Also there is change in building locations. PP to submit dated Architect certificate addressing to committee regarding building wise construction (Configuration, FSI, NoN-FSI, TBUA) approved in earlier EC, approvals from local Authority, actual construction done and proposed expansion. The Architect along with said certificate also submit the cross-sections of floors of buildings approved through earlier E.C. and the cross- sections of 3 podiums already constructed. 2) to submit the latest building wise photographs especially clearly showing the podiums of the buildings. 3) to superimpose building wise cross section of project submitted during earlier EC & cross section submitted for expansion 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.

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DECISION OF SEAC

Committee noted that, the building configuration approved in earlier EC was 1 building with 6 wings- 3B +G +13 floors each but as per architect certificate submitted by PP, the building configuration mentioned as 3B+ stilt+ 3 podium +1 to 5th floor & these podiums were not approved in earlier EC & those are also inter connected with each other. Also there is slight change in building locations. Considering the above changes in building profile, after deliberation committee decided to refer the matter to SEIAA for further necessary action.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

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Agenda of 128th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 128 **Meeting Date** February 12, 2020

Subject: Environment Clearance for Seeking revised EC for Slum Rehabilitation Scheme at Malad

Is a Violation Case: No

1.Name of Project	Slum Rehabilitation Scheme at Malad
2.Type of institution	Private
3.Name of Project Proponent	M/s. Satellite Developers Pvt. Ltd. Mr. Ankur Jain (CEO)
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	Amendment and expansion in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Received Environmental Clearance from SEIAA, Maharashtra vide file no. SEIAA-EC-0000000608 dated 15.01.2019.
8.Location of the project	C.T.S. No. 16/A/2 of village Malad (E), Mumbai.
9.Taluka	Malad
10.Village	Malad
Correspondence Name:	M/s. Satellite Developers Pvt. Ltd.
Room Number:	S-14
Floor:	7th floor
Building Name:	Solitaire Corporate Park
Road/Street Name:	Andheri – Ghatkopar Link Road
Locality:	Andheri (E)
City:	Mumbai- 400 093
11.Whether in Corporation / Municipal / other area	Corporation - Municipal Corporation of Greater Mumbai (M.C.G.M.)/, Planning Authority - Slum Rehabilitation Authority (SRA)
12.IOD/IOA/Concession/Plan Approval Number	Received IOA No. PN/PVT/0183/20170602/AP from SRA dt. 01.08.2018
	IOD/IOA/Concession/Plan Approval Number: IOA No. PN/PVT/0183/20170602/AP dated 01.08.2018
	Approved Built-up Area: 13114.06
13.Note on the initiated work (If applicable)	Total constructed work (FSI+ Non FSI) on site till date: 17924.72 Sq.mt.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received revised LOI from SRA dt. 28.11.2019
15.Total Plot Area (sq. m.)	9761.08 Sq.mt.
16.Deductions	380.01 Sq. mt.
17.Net Plot area	9381.07 Sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 39157.85 Sq. mt. (Including Fungible area)
	b) Non FSI area (sq. m.): 24432.51 Sq.mt.
	c) Total BUA area (sq. m.): 63590.36
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 13114.06 Sq. mt. (Including Fungible area)
	Approved Non FSI area (sq. m.): 9938.07 Sq.mt.
	Date of Approval: 01-08-2018
19.Total ground coverage (m2)	3122.16 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	33%
21.Estimated cost of the project	3670500000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehabilitation Building	Stilt + 1st to 22nd floors	68.15
2	Sale Building 1	Wing G & H :Basement + Stilt + 1st to 17th floors + 18th (Pt.) floor each	69.15
3	Sale Building 2	Wing A, B & C: Gr. (Pt.)/ Stilt (Pt.) + 18 floors each	69.15
4	Sale Building 2	Wing D, E & F: Stilt + 1st to 18th Floors each	69.15
5	Club House	Ground + 1st floor	8.10

23.Number of tenants and shops	Rehabilitation Building : Rehab Flats: 214 Nos., Shop: 1 No., Sale Building: Flats: 1047 Nos., Shops: 10 Nos.
24.Number of expected residents / users	5104 Nos.
25.Tenant density per hectare	1344/ 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)	9.00 mt. wide existing municipal 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 slums on project site which has been partly demolished and partly shall be demolished.
30.Details of the demolition with disposal (If applicable)	The debris generated from demolition of existing slums shall be partly reused on site and partly shall be disposed off to authorized landfill sites with permission from 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

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Dry season:	**Source of water**	M.C.G.M
	Fresh water (CMD):	456 KLD
	Recycled water - Flushing (CMD):	229 KLD
	Recycled water - Gardening (CMD):	10 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	695 KLD
	Fire fighting - Underground water tank(CMD):	800 KL
	Fire fighting - Overhead water tank(CMD):	230 KL
	Excess treated water	294 KLD
Wet season:	**Source of water**	M.C.G.M/ Partly by RWH
	Fresh water (CMD):	456 KLD
	Recycled water - Flushing (CMD):	229 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	685 KLD
	Fire fighting - Underground water tank(CMD):	800 KL
	Fire fighting - Overhead water tank(CMD):	230 KL
	Excess treated water	304 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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	8.8 mt. below ground level
	Size and no of RWH tank(s) and Quantity:	Rehabilitation Bldg: 1 RWH tank of capacity 50 KL, Sale Building 1: 1 RWH tank of capacity 34 KL, Sale Building 2: 1 RWH tank of capacity 100 KL
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 27.40 Lacs
	Budgetary allocation (O & M cost) :	Rs. 1.09 Lacs/annum
	Details of UGT tanks if any :	Location of UG tanks: Underground
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged in to the external drain.
	Quantity of storm water:	0.19 m3/sec
	Size of SWD:	600 mm wide with slope 1: 300
Sewage and Waste water	**Sewage generation in KLD:**	593 KLD
	STP technology:	Rehab Building : Moving Bed Bio Reactor (MBBR), Sale Building : Rotating Media Bio Disk Reactor (RMBR)
	Capacity of STP (CMD):	Rehabilitation bldg: 1 STP tank of capacity 200 KL, Sale Building 1: 1 STP tank of capacity 200 KL, Sale Building 2 & Clubhouse: 1 STP tank of capacity 500 KL
	Location & area of the STP:	Rehabilitation building : Ground level , Sale Building 1: Underground, Sale Building 2: Ground level
	Budgetary allocation (Capital cost):	Rs. 224.00 lacs
	Budgetary allocation (O & M cost):	Rs. 31.08 lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation material shall be partly reused on site for backfilling and leveling and remaining shall be disposed to authorized landfill site.
	Disposal of the construction waste debris:	Construction waste (Brick, blocks, ceramic tiles, marbles etc.) partly shall be used for waterproofing work, paving & landscaping areas and remaining shall be disposed to authorized landfill site.
Waste generation in the operation Phase:	**Dry waste:**	1366 kg/day
	Wet waste:	911 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	89 kg/day
	Others if any:	Not Applicable

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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):	Not Applicable
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Ground floor
	Area for the storage of waste & other material:	67 sq. mt.
	Area for machinery:	36.00 sq. mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 27.00 Lacs
	O & M cost:	Rs. 5.35 Lacs/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

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43.Green Belt Development	**Total RG area :**	1484.94 sq. mt.
	No of trees to be cut :	23 Nos.
	Number of trees to be planted :	166 Nos.
	List of proposed native trees :	As shown 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	Saraca asoka	Sita ashoka	75	Shady evergreen tree with red-yellow flowers.
2	Caryota urens	Fish tail palm	25	Solitary-trunked tall evergreen tree. Pulp of the fully grown up plant is cut, sun dried, powdered and is edible. Ornamental plant.
3	Nyctanthes arbor-tristis	Parijatak	25	Small deciduous fast growing tree or shrub, beautiful fragrant flowers, Its leaves and bark has medicinal properties.
4	Azadiracta indica	Neem	25	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation
5	Michelia champaca	Son chafa	16	Medium sized evergreen tree, strongly fragrant yellow flowers used in perfume industry, Butterfly host plant
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	150 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	17462 KW
	During Operation phase (Demand load):	5927 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	2 DG sets of 300 kVA each and 1 DG set of 600 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:
- Solar based street lighting, landscape lighting, corridor staircase lighting, parking, services and common area lighting.
- Provision of solar water heating system
- Provision of LED lamps
- Provision of electronic ballast
- Saving due to timer and sensors
- Use of hydropneumatic pumping system with VFD @ 30% minimum
- Use of capacitors for common area load

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall Energy Saving	Rehabilitation Building: 16 %, Sale Building 1: 17 %, Sale Building 2: 18.5
2	Energy saving due to renewable energy	Rehabilitation Building: 8%, Sale Building 1: 6%, Sale Building 2: 6.5%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 135.00 Lacs
	O & M cost:	Rs. 4.05 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)

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1	Air Environment	Cost for Dust Suppression	1.44
2	Air Environment	Air and Noise Monitoring: On site Sensors	0.50
3	Air Environment	Air and Noise Monitoring: By outside MoEF & CC Approved Laboratory	0.22
4	Water Environment	Drinking water analysis	0.03
5	Land Environment	Site Sanitation	1.00
6	Health & Hygiene	Disinfection- Pest Control	1.20
7	Health & Hygiene	Health Check-up of workers	2.70

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 ENVIRONMEN -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 ENVIRONMEN -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 DG Stack Exhaust Monitoring	3 nos. of stacks	No set up cost is involved	0.14
4	AIR & NOISE ENVIRONMENT - Cost for Plantation	RG area on ground	8.17	1.20
5	WATER ENVIRONMENT - Cost for Waste water treatment	Cost for sewage Treatment Plants	170.00	28.00
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 - Cost for Water Conservation (Rain Water Harvesting System)	Cost for RWH tanks	18.40	0.92

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9	WATER ENVIRONMENT - Cost for Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for Rain Water collected in tanks	9.00	0.03
10	WATER ENVIRONMENT - Cost for Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.14
11	LAND ENVIRONMENT - Cost for Solid Waste Management	Cost for Treatment of biodegradable garbage in OWC	27.00	5.35
12	LAND ENVIRONMENT - Cost for Solid Waste Management	Cost for Manure Monitoring	No set up cost is involved	0.32
13	ENERGY CONSERVATION - Use of renewable energy	Solar system	135.00	4.05

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 and exit

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Parking details:	**Number and area of basement:**	1 Basement for Sale building 1
	Number and area of podia:	Not applicable
	Total Parking area:	2790.55 Sq. mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	38 Nos.
	Number of 4-Wheelers as approved by competent authority:	199 Nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Min 6.0 mt.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	Not Applicable
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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Representative of PP was present during the meeting along with environmental consultant. M/s. ULTRA TECH.

PP informed that, the project under consideration is amendment and expansion SRA scheme project. PP further stated that, the total plot area of the project is 9761.08 Sq.mt having total construction area 61748.78 Sq.mt (FSI - 39130.20 Sq.mt + NON FSI- 22618.58 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Rehabilitation Building	Stilt + 1st to 22nd floors	68.15
Sale Building 1 Wing G & H:	Stilt + 1st to 17th floors + 18th (pt.) floor	69.15
Sale Building 2	Wing A & B: Basement + Ground (pt.) + Stilt (pt.) + 1st to 22nd floors	68.15
Sale Building 2	Wing C: Ground (pt.) + Stilt (pt.) + 1st to 18th floors	69.15
Sale Building 2	Wing D, E & F: Stilt + 1st to 18th floors	69.15
Club House	Ground + 1st floor	8.10

It is noted that, Project has received Environmental clearance vide letter dated 15.01.2019.

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

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

Specific Conditions by SEAC:

1) Local planning authority to ensure the structural stability of building for which vertical expansion is proposed.
2) PP to abide the all conditions laid in the CFO NoC.
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

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Agenda of 128th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 128 **Meeting Date** February 12, 2020

Subject: Environment Clearance for proposed redevelopment of conservancy staff quarters on the plot bearing CTS No. 786 (pt), 788 of village Chembur at P. L. Lokhande Marg, M/E Ward, Chembur, Mumbai by Municipal Corporation of Greater Mumbai (MCGM)

Is a Violation Case: No

1.Name of Project	Redevelopment of Conservancy Staff Quarters
2.Type of institution	Government
3.Name of Project Proponent	Municipal Corporation of Greater Mumbai (MCGM)
4.Name of Consultant	Mahabal Enviro Engg. Pvt. Ltd.: Dr. D. A. Patil
5.Type of project	Redevelopment project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project (Redevelopment project)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing CTS No. 786 (pt), 788 of village Chembur at P. L. Lokhande Marg, M/E Ward, Chembur, Mumbai.
9.Taluka	Kurla
10.Village	Chembur
Correspondence Name:	Surendra Borale
Room Number:	-
Floor:	3rd Floor
Building Name:	Engineering Hub Building
Road/Street Name:	Dr E. Moses Road Worlinaka
Locality:	Worli
City:	Mumbai
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	In process
	IOD/IOA/Concession/Plan Approval Number: In process
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	-
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	In process
15.Total Plot Area (sq. m.)	5842.52 m2
16.Deductions	-
17.Net Plot area	5842.52 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20715.12 m2
	b) Non FSI area (sq. m.): 4118.58 m2
	c) Total BUA area (sq. m.): 24833.70
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** -
	Approved Non FSI area (sq. m.): -
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	1779.39 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	30.45 %
21.Estimated cost of the project	749541721.50

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building 1 [Wing A to Wing F]	Stilt + 1st to 15 Floors	47.00
2	Building 2 [Wing G to Wing I]	Stilt + 1st to 15 Floors	47.00

23.Number of tenants and shops	Flats : 540 Nos, Dispensary
24.Number of expected residents / users	2,716 Nos
25.Tenant density per hectare	924/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	17.50 m wide P. L. Lokhande Marg and 12.86 m wide Existing Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Yes
30.Details of the demolition with disposal (If applicable)	Existing 8 staff quarters and 1 dispensary to be demolished

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	243 KLD
	Recycled water - Flushing (CMD):	122 KLD
	Recycled water - Gardening (CMD):	4 KLD
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	365 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO
	Fire fighting - Overhead water tank(CMD):	As per CFO
	Excess treated water	212 KLD
Wet season:	**Source of water**	MCGM + RWH
	Fresh water (CMD):	218 KLD + 25 KLD
	Recycled water - Flushing (CMD):	122 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	365 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO
	Fire fighting - Overhead water tank(CMD):	As per CFO
	Excess treated water	216 KLD
Details of Swimming pool (If any)	-	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 to 4 m
	Size and no of RWH tank(s) and Quantity:	1 Nos. of RWH tank with total capacity 50 KL
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	4 nos of ring well
	Size of recharge pits :	3 m X 3 m X 2 m
	Budgetary allocation (Capital cost) :	Rs. 12 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 1 Lakhs/year
	Details of UGT tanks if any :	Provided as per NBC Norms
35.Storm water drainage	**Natural water drainage pattern:**	Slope of the plot is towards North side
	Quantity of storm water:	648.52 m3/hr
	Size of SWD:	600 mm X 450 mm
Sewage and Waste water	**Sewage generation in KLD:**	341 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	350 KLD
	Location & area of the STP:	Area: 150 m2
	Budgetary allocation (Capital cost):	Rs. 81 Lakhs
	Budgetary allocation (O & M cost):	Rs. 19 Lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris: 721 m3
	Disposal of the construction waste debris:	Construction debris will be utilized at site for road paving leveling. The construction debris will be disposed as per the “Construction and Desilting waste (Management and Disposal) Rules 2016
Waste generation in the operation Phase:	**Dry waste:**	543 kg/day
	Wet waste:	815 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	100 Kg/Month
	STP Sludge (Dry sludge):	3 KLD
	Others if any:	Household E-Waste

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Mode of Disposal of waste:	**Dry waste:**	Waste will be segregated at source and Dry waste will be handed over to authorized recycler
	Wet waste:	Wet Waste will be composted through mechanical composting unit
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Will be handed over to MPCB authorized vendor for disposal as per Biomedical Waste Handling rules 2016
	STP Sludge (Dry sludge):	Sludge after dewatering will be used as manure for landscaping
	Others if any:	Domestic E-waste will be handed over to authorized vendor
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	60 m2
	Area for machinery:	30 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 36 Lakhs
	O & M cost:	Rs. 14 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):	-
Capacity of the ETP:	-
Amount of treated effluent recycled :	-
Amount of water send to the CETP:	-
Membership of CETP (if require):	-
Note on ETP technology to be used	-
Disposal of the ETP sludge	-

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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43.Green Belt Development	**Total RG area :**	RG Area provided: 876.64 m2
	No of trees to be cut :	Existing trees on site: 22 Nos. Trees to be retained:10 Nos. Trees to be cut / transplant : 12 Nos.
	Number of trees to be planted :	90 Nos
	List of proposed native trees :	As per the List Below
	Timeline for completion of plantation :	At Completion stage

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shirish	10	Shady tree, yellowish green fragrant flowers
2	Pongamia pinnata	Karanj	10	Shady tree
3	Bombax ceiba	Katesavar	8	Large tree, red flowers
4	Bauhinia racemosa	Apta	15	Small tree with small white flowers, butterfly host plant.
5	Cassia fistula	Bahava	6	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
6	Mimusops elengi	Bakul	8	Shady tree, small white fragrant flowers
7	Nyctanthes arbor-tristis	Parijatak	14	Small deciduous fast growing tree, beautiful flowers
8	Michelia champaca	Son chafa	11	Medium sized deciduous tree. Bright scarlet flowers
9	Alstonia scholaris	satwin	10	Shady tree, good for roadside plantation
10	Ficus retusa	Nandruk	8	Shady Tree, white fragrant flower
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	Reliance
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	75 kVA
	During Operation phase (Connected load):	2.7 MW
	During Operation phase (Demand load):	1.5 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	1 X 500 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not applicable

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	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. 100 Lakhs
	O & M cost:	Rs. 5 Lakhs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	5
2	Site sanitation and Potable Water Supply to Labour	-	7

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3	Environmental Monitoring	(As per the CPCB guidelines through MoEF&CC Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time)	4
4	Health check-up & first aid	-	2
5	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves etc.)	6
6	Traffic Management	(Sign Boards, Persons at entry exit and Parking area)	5
7	Safety nets	-	8
8	Storm water Management	SWD along plot boundary and Sedimentation Pits	3
9	Safety Training to Workers	(Twice in Year), Safety Officer	4
10	Disinfection	-	2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	81	19
2	Solar System	Weekly	100	5
3	Rainwater Harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	12	1
4	Solid Waste Composting plant	Continuous O & M	36	14
5	Landscape	Daily	9	1
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	4

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

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

52.Any Other Information

No Information Available

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53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	one existing junction on 17.50 m wide P. L. Lokhande Marg
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	2960 m2
	Area per car:	28.5 m2
	Area per car:	28.5 m2
	Number of 2-Wheelers as approved by competent authority:	65 Nos.
	Number of 4-Wheelers as approved by competent authority:	80 Nos
	Public Transport:	-
	Width of all Internal roads (m):	6 m & 9 m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	No
	Other Relevant Informations	Not applicable
	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

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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.

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Agenda of 128th Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 128 **Meeting Date** February 12, 2020

Subject: Environment Clearance for Environmental Clearance for SRA project comprising of rehabilitation and sale building located at F.P. No. 1291, TPS -IV Mahim, Hastikar Marg, Opp. Adarsh Nahar Telephone Exchange, Worli, Mumbai.

Is a Violation Case: No

1.Name of Project	Satyavijay SRA CHS Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sanjeev Kanwar
4.Name of Consultant	M/s. Sadekar Enviro Engineers Pvt. Ltd.
5.Type of project	SRA Scheme for Satyavijay SRA CHS Ltd. through M/s. B. Brothers Builders
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	F.P. No. 1291, TPS - IV Mahim
9.Taluka	Mumbai
10.Village	-
Correspondence Name:	Mr. Birendra Bhandari
Room Number:	Gala No. 3
Floor:	-
Building Name:	Bay View Terraces
Road/Street Name:	Hatiskar Marg
Locality:	Opp. Adarsh Nahar Telephone Exchange
City:	Worli, Mumbai
11.Whether in Corporation / Municipal / other area	MCGM
12.IOD/IOA/Concession/Plan Approval Number	Occupancy certificate has been obtained for all the buildings namely Rehab Building - A, Rehab Building - B and Sale Building. The last approval received was Full occupancy of Sale building vide no. - SRA/ENG/1838/GS/ML/AP dated 16/05/2014.
	IOD/IOA/Concession/Plan Approval Number: SRA/ENG/1838/GS/ML/AP dated 16/05/2014
	Approved Built-up Area: 25354.58
13.Note on the initiated work (If applicable)	All the three building namely Rehab building - A, Rehab building - B and Sale building have receive full occupancy letters.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Letter of Intent received from BMC vide no. - Dy.CE/SI/11809 dated 21/03/1996
15.Total Plot Area (sq. m.)	4245.01 Sq. m.
16.Deductions	1528.40 Sq. m.
17.Net Plot area	2716.61 Sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 10606.28 Sq. m. (Rehab building A - 2865.93 Sq. m., Rehab building B - 3003.24 Sq. m., Sale building - 4737.11 Sq. m.)
	b) Non FSI area (sq. m.): 14890.79 Sq. m. (Rehab building A - 521.60 Sq. m., Rehab building B - 1362.22 Sq. m., Sale building - 13006.97 Sq. m.)
	c) Total BUA area (sq. m.): 25354.58
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 10606.28 Sq. m.
	Approved Non FSI area (sq. m.): 14890.79 Sq. m.
	Date of Approval: 16-05-2014
19.Total ground coverage (m2)	Total area - 1747.48 (Rehab building A - 450.26 Sq. m., Rehab building B - 541.87 Sq. m., Sale building - 755.35 Sq. m.)

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20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	41.16
21.Estimated cost of the project	657024732

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab building - A	Ground + 7 floors	26.7 meters
2	Rehab building - B	Ground + Part Stilt + 7 Upper floors	28.4 meters
3	Sale building	Part basement, Part Ground + Part Stilt / + 8 level stilt / car parking floor with two car lifts, 9th refuge floor, 10th floor swimming pool open to sky, 11th floor for fitness center (Gymnasium), society office, 12th floor service floor, 13th to 14th floor residential sale flats, 15th floor partly refuge area and partly sale flats, 16th to 19th floor residential sale flats, 20th floor partly refuge area and partly sale flats, 21st to 24th floor residential sale flats, 25th floor partly refuge area and partly sale flats, 26th to 29th floor residential sale flats, 30th floor partly refuge area and partly duplex sale flats, 31st to 33rd floor duplex residential sale flats.	118.80 meters

23.Number of tenants and shops	Rehab building - A: 137 Flats (132 - Residential, 1 - Shop, 2 - Welfare Centre, 1 - Balwadi, 1- Society Office) Rehab building - B: 142 Flats (137 - Residential, 1 - Shop, 1 - Welfare Centre, 2 - Balwadi, 1 - Society Office Sale building - 38 Flats
24.Number of expected residents / users	Rehab building - A: 532 nos., Rehab building - B: 552 nos, Sale building: 152 nos.
25.Tenant density per hectare	704.4/Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	The nearest fire station is Worli fire station which is 0.5 kms from project site in south direction. The road to the project side from fire station is around 15.0 meters wide.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius of 12.0 meters is provided within the plot premises.
29.Existing structure (s) if any	The existing site was covered with slums.

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30.Details of the demolition with disposal (If applicable)	The entire slums was demolished and redeveloped.

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 / Water Tanker
	Fresh water (CMD):	289
	Recycled water - Flushing (CMD):	-
	Recycled water - Gardening (CMD):	4
	Swimming pool make up (Cum):	1
	Total Water Requirement (CMD) :	294
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	50
	Excess treated water	Nil
Wet season:	**Source of water**	M.C.G.M
	Fresh water (CMD):	289
	Recycled water - Flushing (CMD):	-
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	1
	Total Water Requirement (CMD) :	290
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	50
	Excess treated water	Nil
Details of Swimming pool (If any)	Capacity of swimming pool is 183 Cu. m.	

33.Details of Total water consumed

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

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Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Upto 1 meter level
	Size and no of RWH tank(s) and Quantity:	Nil
	Location of the RWH tank(s):	Nil
	Quantity of recharge pits:	1
	Size of recharge pits :	200 mm pipe connected to borewell
	Budgetary allocation (Capital cost) :	1,00,000
	Budgetary allocation (O & M cost) :	5,000
	Details of UGT tanks if any :	2 U.G. Tank of 60000 litres capacity 1 each for Rehab building A and Rehab building B (In addition Overhead Tank for Rehab building A - 30000 litres capacity & Rehab building B - 100000 litres capacity are also provided), 1 U.G. Tank of 80,000 litres capacity for sale component and 1 fire fighting U.G.tank of 300000 litres capacity. in sale component (In addition Overhead Tank of 50000 litrs capacity for Fire Fighting and Overhead Tank of 58000 litrs capacity for Domestic Flushing are also provided).
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drains of adequate capacity is provided within the plot which will be further connected to external SWD
	Quantity of storm water:	267 m3/hr.
	Size of SWD:	0.5 m X 0.5 m
Sewage and Waste water	**Sewage generation in KLD:**	40 KLD
	STP technology:	Sewage waste water will be treated in the Sewage Treatment Plant (Fluidized Media Bio Reactor) with RO plant is provided.
	Capacity of STP (CMD):	1 No. of STP of capacity 50 CMD is provided for sale building
	Location & area of the STP:	Near Sale Building
	Budgetary allocation (Capital cost):	40 Lakhs
	Budgetary allocation (O & M cost):	2.5 Lakhs/Annum

36.Solid waste Management

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Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation material will be partly reused on site and remaining shall be disposed to authorized vendors.
	Disposal of the construction waste debris:	Debris will be generated after demolition of existing building structures. Debris will be partly used within the plot and remaining waste will be disposed off to authorized vendor.
Waste generation in the operation Phase:	**Dry waste:**	988.8 kg/day
	Wet waste:	1483.2 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	1.25 T/M
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Dry waste shall be disposed through authorized vendors.
	Wet waste:	Processed in organic waste convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	STP sludge is used as manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Basement
	Area for the storage of waste & other material:	10 Sq. m.
	Area for machinery:	40 Sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20,00,000
	O & M cost:	15,000

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

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	100 Lit/hr.	-	100 Lit/hr.
41.Source of Fuel		Local		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	Plantations have been done on other earth area.
	No of trees to be cut :	Nil
	Number of trees to be planted :	86 Nos.
	List of proposed native trees :	No new plantations will be done
	Timeline for completion of plantation :	Plantations have been done

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	None	None	None	None
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	BEST
	During Construction Phase: (Demand Load)	Not Applicable. The site is already constructed.
	DG set as Power back-up during construction phase	Not Applicable. The site is already constructed.
	During Operation phase (Connected load):	430 KVA
	During Operation phase (Demand load):	415 KVA
	Transformer:	Transformer Capacity : 650 KV - 11000 V
	DG set as Power back-up during operation phase:	500 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

- Common area lighting with High efficiency LED light.
- Energy efficient pumping

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy saving	20%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water	STP of 50 KLD has been installed with RO plant	--
OWC	Organic waste convertor has been installed. Excel Industries make.	--

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	NA	NA
2	Water	NA	NA
3	Land	NA	NA
4	Health and Hygiene	NA	NA
5	Cost for Disaster Management Plan	NA	NA

b) Operation Phase (with Break-up):

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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air, Water and Noise Environment - Ambient Air Quality and Noise monitoring	By external MoEF & CC approved lab.	--	1.0 Lakhs
2	Water	Cost for Sewage Treatment Plant	40.0 Lakhs	5.0 Lakhs
3	Rain Water Harvesting	Cost of Rain Water Harvesting	5.0 Lakhs	0.50 Lakhs
4	Disaster Management	Cost towards Disaster Management	165.0 Lakhs	4.0 Lakhs

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:	NA
Parking details:	**Number and area of basement:**	1 Basement having 261.52 Sq. m. area
	Number and area of podia:	8 Podiums having total area of 6042.80 Sq. m.
	Total Parking area:	6042.80 Sq. m.
	Area per car:	68.87 Sq. m.
	Area per car:	68.87 Sq. m.
	Number of 2-Wheelers as approved by competent authority:	Not Applicable
	Number of 4-Wheelers as approved by competent authority:	88 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.0
	CRZ/ RRZ clearance obtain, if any:	NA

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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

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.

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