State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for IT Building with Service Apartments

Is a Violation Case: No

1.Name of Project	EL - 25, Navi Mumbai
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	IT Building with Service Apartments
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	EL - 25 and EL - 25 (part), TTC Industrial area, MIDC, Navi Mumbai – 400 705
9.Taluka	Navi Mumbai
10.Village	Khairane
11.Area of the project	Navi Mumbai Municipal Corporation (NMMC)/ Maharashtra Industrial Development Corporation (MIDC)
12.IOD/IOA/Concession/Plan Approval Number	IOD letter Dt.11/02/2016
	IOD/IOA/Concession/Plan Approval Number: No.DE/SPA/MHP(C)/EL-25 & EL-25 part /A47746 2016
	Approved Built-up Area: 32837.07
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD letter No.DE/SPA/MHP(C)/EL-25 & EL-25 part /A47746 2016 dated 11.02.2016
15.Total Plot Area (sq. m.)	16,722.00 Sq. mt.
16.Deductions	Nil
17.Net Plot area	16,722.00 Sq. mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 32,837.07
	b) Non FSI area (sq. m.): 71,570.49
	c) Total BUA area (sq. m.): 104407.56
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	8,237.50
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	49.26 %
21.Estimated cost of the project	3521700000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	IT Building (Wing A & B)	Basement + Ground + 4 Parking Floors + 5th to 20th Upper Floors	85.05
2	Service Apartment (Wing C)	Basement + Ground + 4 Parking Floors + 5th to 16th Upper Floors	64.42

23.Number of tenants and shops	Service Apartment Rooms: 241 Nos.

24.Number of expected residents / users	4086 Nos.
25.Tenant density per hectare	144/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)	61.0 mt wide Central Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m
29.Existing structure (s) if any	There is an existing administration building on site which shall be demolished
30.Details of the demolition with disposal (If applicable)	Demolition waste material shall be partly recycled and remaining shall be disposed to the authorized land fill site.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	163 KLD
	Recycled water - Flushing (CMD):	122 KLD and Cooling Tower make up: 83 KLD
	Recycled water - Gardening (CMD):	5 KLD
	Swimming pool make up (Cum):	1 KLD
	Total Water Requirement (CMD) :	373 KLD
	Fire fighting - Underground water tank(CMD):	400 KL
	Fire fighting - Overhead water tank(CMD):	44 KL
	Excess treated water	210 KLD

Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	163 KLD
	Recycled water - Flushing (CMD):	122 KLD and Cooling Tower make up: 83 KLD
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	1 KLD
	Total Water Requirement (CMD) :	368 KLD
	Fire fighting - Underground water tank(CMD):	400 KL
	Fire fighting - Overhead water tank(CMD):	44 KL
	Excess treated water	205 KLD
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.50 to 2.30 mt below ground surface
	Size and no of RWH tank(s) and Quantity:	For IT building: 2 Nos. of RWH tanks of capacity 30 KL each For Services Apartment: 2 Nos. of RWH tanks of capacity 80 KL each
	Location of the RWH tank(s):	basement
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	Rs. 28.00 Lacs
	Budgetary allocation (O & M cost) :	Rs. 1.30 Lacs/annum
	Details of UGT tanks if any :	Location: 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 into the external drain.
	Quantity of storm water:	0.62 m3/sec
	Size of SWD:	1.06 m3/sec

Sewage and Waste water	**Sewage generation in KLD:**	252 KLD
	STP technology:	MBBR (Moving Bed Bio Reactor)
	Capacity of STP (CMD):	1 STP of capcity 275 KL
	Location & area of the STP:	Basement Level
	Budgetary allocation (Capital cost):	Rs. 74.30 Lacs
	Budgetary allocation (O & M cost):	Rs. 15.61 Lacs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation earth shall be partly reused on site and partly shall be disposed to authorized landfill site with permission of NMMC/ MIDC
	Disposal of the construction waste debris:	Construction waste generated during construction activity shall be partly reused on site and partly shall be disposed to authorized landfill site with permission of NMMC/ MIDC
Waste generation in the operation Phase:	**Dry waste:**	394 Kg/day
	Wet waste:	437 Kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	38 Kg/day
	Others if any:	E-wase: 236 Kg/day
Mode of Disposal of waste:	**Dry waste:**	Non-recyclable: To MIDC Recyclable: To recyclers
	Wet waste:	Composting in Organic Waste Converter (OWC)
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	As Manure
	Others if any:	E-waste: Separate Storage & disposal through authorized recyclers
Area requirement:	**Location(s):**	Basement
	Area for the storage of waste & other material:	94 Sq. mt.
	Area for machinery:	12 Sq. mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 9.0 Lacs
	O & M cost:	Rs. 2.35 Lacs /annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		Not applicable			

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development

Total RG area :	RG on the ground (sq. m.): 1768.62
No of trees to be cut :	Trees to be cut: 84 Nos.
Number of trees to be planted :	166 Nos.
List of proposed native trees :	Given in List of proposed plantation on ground
Timeline for completion of plantation :	At time of 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	Areca catechu	Supari	14	It is a medium-sized and palm tree, The seed contains alkaloids such as arecaidine and arecoline, which, Used as an interior landscaping species, Nuts are used for chewing.
2	Mimusops elengi	Bakul	14	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.

3	Azadirachta indica	Neem	14	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation
4	Cassia fistula	Bahava	14	Medium sized deciduous tree. Beautiful yellow flowers, it is relatively drought tolerant and slightly salt tolerant. It has medicinal properties, Butterfly host plant.
5	Casuarina equisetifolia	Suru	10	Is an evergreen tree. The wood of this tree is used for shingles, fencing, and is said to make excellent, hot burning firewood. Casuarina is widely used as a bonsai.
6	Lagestroemia flos-reginae	Tamhan	14	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers, it has medicinal properties, wood is commercially used. Helps to control soil erosion
7	Magnolia champaca	Son Chapha	15	Medium sized evergreen tree, strongly fragrant yellow flowers used in perfume industry, Butterfly host plant
8	Murraya paniculata	Kamini	10	Small tropical, evergreen tree, Fragrant white flowers, planted as ornamental tree, it has potential of medicinal properties, family tree for bees,Butterfly host plant
9	Neolamarkia cadamba	Kadamba	15	It is a quick growing , large traffic like spreading branches, its fragment orange flowers attracts pollinators, it helps in improving physical and chemical properties of soil, Shady, large tree, ball shaped flowers. It acquires profitable medicinal and commercial properties
10	Plumeria alba	Chapha	15	They tolerate a wide variety of soils, from acid to alkaline and sandy to clay.
11	Saraca asoca	Sita Ashok	11	Shady evergreen tree with red-yellow flowers
12	Delonix regia	Gulmohar	10	Grown as an ornamental tree,Shady trees, orange-red petals attracts birds and petals. It is planted as an ornamental tree.
13	Peltophorum pterocarpum	Copper Pod	10	It is planted as ornamental plant. The wood can also be used for fuel. The bark produces yellow-brown dye. The bark (sold as Kayu Timor in Java) from which extracts are taken are believed to be effective in curing dysentery (used internally) and relieving ulcers, muscular pain and sprains. The extracts can also be used as an eye lotion, gargle and even tooth powder.

45.Total quantity of plants on ground	

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	5557 KW
	During Operation phase (Demand load):	3323 KW
	Transformer:	For Services Apartment: 1nos # 1250KVA and For IT building: 2 nos # 1250KVA and 2nos # 1600 KVA
	DG set as Power back-up during operation phase:	2 DG sets of 1500 KVA each 1 DG set of 2000 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

- Use of Solar Water heating for Apartments
- Use of LED for internal lighting for IT building and Rooms in Apartments
- Use of Timer based Staircase lighting & typical floor Lobbies on multiple circuits for IT Building and Apartments
- Use of External Lighting is on timer
- Group control of elevators with PM motors and VFDs
- Demand based ventilation with VFDs for basement ventilation
- High efficiency (EFF1) motors in PHE systems with VFDs

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Over All saving For IT building	13.00%
2	Over All saving For Apartment	16.00%
3	Saving due to solar use	11.00%

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. 11.00 Lacs (Solar system)
	O & M cost:	Rs.1.65 Lacs/annum (Solar system)

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	3.60
2	Air Environment	Air & Noise Quality Monitoring (On site sensors)	10.00
3	Air Environment	Air & Noise Quality Monitoring (By outside MOEF Approved Laboratory)	1.10
4	Water Environment	Drinking water analysis	0.90
5	Land Environment	Site Sanitation	5.00
6	Health & Hygiene	Disinfection- Pest Control	6.00
7	Health & Hygiene	Health Check Up of workers	22.50
8	Cost towards disaster management	--	19.98

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	9.73	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	Cost for DG Stack Exhaust Monitoring	No set up cost is involved	0.05
4	Water Environment (Waste water treatment)	Cost for sewage Treatment Plant	56.30	14.58
5	Water Environment (Waste water treatment)	Cost for Waste water Monitoring (On site sensors)	18.00	1.00
6	Water Environment (Waste water treatment)	Cost for Waste water Monitoring (By outside MOEF Approved Laboratory)	No set up cost is involved	0.03
7	Water Environment (Water Conservation (Rain Water Harvesting)	Cost for RWH tank	22.00	1.10
8	Water Environment (Water Conservation (Rain Water Harvesting)	Cost for treatment unit for rain water tanks	6.00	0.02

9	Water Environment (Water Conservation (Rain Water Harvesting)	Cost for Rainwater Monitoring	No set up cost is involved	0.18
10	Land Environment (Solid Waste Management)	Cost for Treatment of biodegradable garbage in OWC	9.00	2.27
11	Land Environment (Solid Waste Management)	Cost for monitoring of organic manure	No set up cost is involved	0.08
12	Energy Conservation	Solar system	11.00	1.65
13	Cost towards Disaster management	--	181.20	13.00

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:	Two entry & two exit
Parking details:	**Number and area of basement:**	1 no.
	Number and area of podia:	4 nos.
	Total Parking area:	26,817.80 Sq. mt.
	Area per car:	as per NBC
	Area per car:	as per NBC
	Number of 2-Wheelers as approved by competent authority:	Required: 90 Nos., Provision: 217 Nos.
	Number of 4-Wheelers as approved by competent authority:	Required: 903 Nos., Provision: 911 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 to 9.00 mt.

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category 8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	not applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	23-05-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for prior Environmental Clearance on total plot area of 16722 Sq. mtrs, total BUA of 104407.56 Sq. mtrs. and FSI area of 32837.07 Sq. mtrs. PP proposes to construct IT Building with 2 wings & service apartment having maximum height of 85.05 mtrs

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2.

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP 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) PP to revise Fire Tender Movement planto access fire tender at least three sides of each building.
3) PP to revise and submit the Wind, Shadow, Thermal analysis report.
4) PP to declare campus as a plastic free zone (No Pet bottles, cutlery), PP to ensure that plastics used in packaging should be recycled.
5) PP to submit arrangement details for handling E-waste.
6) PP to explore possibility of use of excess treated water to other adjacent industry in MIDC.
7) PP not to train thenallah or undertake any construction on it. pp to leave adequate buffer zone from the nalla to enable nalla cleaning.
8) PP to revise and submit consolidated statement regarding Non FSI, TBA, Configuration, and Height of buildings.
9) PP to submit CFO NOC and HRC NOC.
10) PP to provide mechanical ventilation, Air purifier in the basement.
11) PP to submit details of demolition waste and its disposal plan.

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for Environmental Clearance for expansion of thr proposed SRA Scheme for Shree Mahalaxmi CHS, Jai Mahalaxmi CHS, Shivraya Sahakari CHS, Shree Sai Ganesh CHS in R/North Ward at Plot bearing CTS No. 1839, 1848, 1849, 1850/1 To 11, 1851, 1852, 1853 of Ovaripada, Dahisar (E), Mumbai

Is a Violation Case: No

1.Name of Project	expansion of thr proposed SRA Scheme for Shree Mahalaxmi CHS, Jai Mahalaxmi CHS, Shivraya Sahakari CHS, Shree Sai Ganesh CHS in R/North Ward at Plot bearing CTS No. 1839, 1848, 1849, 1850/1 To 11, 1851, 1852, 1853 of Ovaripada, Dahisar (E), Mumbai
2.Type of institution	Private
3.Name of Project Proponent	M/s. Ashapura Housing Pvt. Ltd
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	SRA scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC received dtd 30.03.2015 under letter no. SEAC-2013/CR414/TC1
8.Location of the project	Plot bearing CTS No. 1839, 1848, 1849, 1850/1 To 11, 1851, 1852, 1853 of Ovaripada, Dahisar (E), Mumbai
9.Taluka	Borivali
10.Village	Dahisar East
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Yes
	IOD/IOA/Concession/Plan Approval Number: IOA received under letter no. SRA/ENG/3267/RN/PL/AP dated 31.03.2016
	Approved Built-up Area: 65102.515
13.Note on the initiated work (If applicable)	Rehab Building has been constructed completely (B + St +22 Floors). Construction of Rehab Building 2 has been started (B + Plinth)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI received (letter vide no. SRA/ENG/2560/RN/PL/LOI, dated 16-10-2012)
15.Total Plot Area (sq. m.)	8556.10
16.Deductions	2593.28
17.Net Plot area	5962.820
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22604.694
	b) Non FSI area (sq. m.): 12434.15
	c) Total BUA area (sq. m.): 35038.865
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	1396.160
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24 %
21.Estimated cost of the project	1054800000.00

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab building 1	MCGM B + St + 22 floors	68.150
2	Rehab building 2 (2 wings)	B +Gr + 9th (Pt) floors	26.25

3	Sale Building - Wing A	B +St + 6 floors	22.050
4	Sale Building - Wing B	B +St + 7 floors	24.950
5	Sale Building - Wing C	B +Gr + 15 floors	48.150
6	Sale Building - Wing D	B +Gr + 14 floors	45.250

23.Number of tenants and shops	Rehab Building 1: Residential: 166 Nos. Rehab Building 2: Residential: 132 Nos. Shops: 32 Nos. Sale Building: Residential: 290 Nos. Shops: 17 nos.
24.Number of expected residents / users	Rehab Building 1: Residential: 836 Nos. , Rehab Building 2: Residential: 660 Nos. Shops: 96 Nos. , Sale Building: Residential: 1450 Nos. Shops: 51 Nos.
25.Tenant density per hectare	976 Tenants / hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 m & 13.40 m wide D.P road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9.00 m
29.Existing structure (s) if any	• Rehab Building 1 (B + St + 22 floors) • Rehab building 2 (B + Plinth).
30.Details of the demolition with disposal (If applicable)	Existing slums have been demolished and the waste will be disposed as per approved Debris Management Plan.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM/Recycled water
	Fresh water (CMD):	267
	Recycled water - Flushing (CMD):	137
	Recycled water - Gardening (CMD):	1
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	405
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	199
Wet season:	**Source of water**	MCGM /RWH/ STP Treated water
	Fresh water (CMD):	267
	Recycled water - Flushing (CMD):	137
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	404
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	200
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.5 to 3 m below ground
	Size and no of RWH tank(s) and Quantity:	Sale: 52 cum; Rehab 1: 29 cum; Rehab 2: 52 cum
	Location of the RWH tank(s):	Below Ground Level
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 32.00 Lakh
	Budgetary allocation (O & M cost) :	Rs. 1.60 Lakh
	Details of UGT tanks if any :	Domestic: 270 Flushing: 140 Fire fighting tank: 300
35.Storm water drainage	**Natural water drainage pattern:**	SE to NW
	Quantity of storm water:	0.09 m3/sec
	Size of SWD:	0.3 m x 0.3 m
Sewage and Waste water	**Sewage generation in KLD:**	Rehab 1: 105 KLD, Rehab 2: 83 KLD, Sale: 186
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	Rehab 1: 110 KLD, Rehab 2: 90 KLD, Sale:200 KLD
	Location & area of the STP:	Below Ground level
	Budgetary allocation (Capital cost):	Rs. 91.00 Lakh
	Budgetary allocation (O & M cost):	Rs. 23.00 Lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Recyclable waste will be generated like empty cement bags & cans, scrap metal etc. Debris & construction waste shall be generated.
	Disposal of the construction waste debris:	Recyclable waste like empty cement bags & empty paint cans shall be handed over to local vendors. Broken tiles shall be used for china mosaic of terrace. Scrap metals shall be sold to recyclers.
Waste generation in the operation Phase:	**Dry waste:**	601
	Wet waste:	909
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	20
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to Local Recyclers.
	Wet waste:	Will be processed in the OWC. manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure & replacement of saw dust for OWC
	Others if any:	NA
Area requirement:	**Location(s):**	Ground Level
	Area for the storage of waste & other material:	total area provided: 94.00 sqm
	Area for machinery:	total area provided: 94.00 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 12 lakhs
	O & M cost:	Rs. 4.00 lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	1195.538 sq.mt (17%)
	No of trees to be cut :	-
	Number of trees to be planted :	75 nos.
	List of proposed native trees :	As listed below
	Timeline for completion of plantation :	At the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Alstonia scholaris	Blackboard tree	10	Evergreen tree
2	Melia azederach	White cedar	12	Flowering tree
3	Callistemon lanceolatus	Crimson Bottle brush	8	Ornamental tree
4	Bauhinia acuminate	White orchid tree	6	Flowering Plant
5	Solanum macranthum	Potato tree	14	Flowering plant
6	Cordia sebastina	Orange Ginger tree	10	Evergreen Tree
7	Polyalathia longifolia	Mast Tree	15	Evergreen tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	3346 KW
	During Operation phase (Demand load):	2244 KW
	Transformer:	NA
	DG set as Power back-up during operation phase:	2 nos. of 180 KVA, 1 no. of 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Lift lobby lights are proposed on High energy efficient lamps (CFL)
2. Also other lights provided on energy saving luminaries like CFL/LED instead of metal halide lamps
3. For parking the lightning power density shall be 0.2 W/sq.ft by using T5 lights instead of T8.
4. All lifts, Ventilation fans shall run on VFD drives which results in energy saving by adjusting speed of motor & delivering only the req. amount of power

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy saving for sale building	5.1 %
2	Total energy saving for Rehab building	5 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.46 Lakh
	O & M cost:	Rs.5.00 Lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

4	EHS	Disinfection	1.5
5	EHS	Health Check Up	1.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	Rain Water Harvesting	32	1.6
2	Solid waste	OWC	12	4
3	Water Environment	STP	91	23
4	Energy	Solar system	46	5
5	Land Environment	Landscaping	15	2

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site is accessible through the existing 10 m wide & 15 m wide road
Parking details:	**Number and area of basement:**	1996.672
	Number and area of podia:	NA
	Total Parking area:	3680.00 sq.m
	Area per car:	40 sq.m
	Area per car:	40 sq.m
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	157 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m wide internal roads.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park (1.20 km)
	Category as per schedule of EIA Notification sheet	Schedule 8(a), Category B
	Court cases pending if any	NA
	Other Relevant Informations	The project is granted for Environmental Clearance in 107th SEIAA meeting, item no. 5
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

DECISION OF SEAC

PP remained absent.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for "MLDC Yashwant Orchid"- Expansion of Residential cum Commercial Project by M/s. Sai Rydam Realtors Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	"MLDC Yashwant Orchid"- Expansion of Residential cum Commercial Project
2.Type of institution	Private
3.Name of Project Proponent	M/s. Sai Rydam Realtors Pvt. Ltd.
4.Name of Consultant	PROJECT PROPONENT: Sai Rydam Realtors Pvt. Ltd.; ARCHITECT : Sanath Mehta & Associates; MEP CONSULTANT : Adhishtaan Architech; ENVIRONMENT CONSULTANT : Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	Expansion Project (Residential cum Commercial)
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion Project (Residential cum Commercial)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC Received dated 18.07.2016
8.Location of the project	Plot No.1 to 4, 30, 31, 32 ,35,42, 54, 55, 58, 59, 60, 61, 70,71,73, 74, 75, 76, 77, 78, 80, 81, 82, 83 S.No. 7 to 11, 15 to 17, 19 to 25, H.No. Part, and S.No.4, H.No. 3 &4, S.No.5, H.No.1,2&5, S.No.6, H.No.1, S.No.26, H.No.2,3&4, S.No.27, H.No.1,2&3, S.No.28, H.No.1,2&3, S.No.29, H.No.1&2, S.No.30, H.No.3&5, S.No.31, S.No. 33, H.No.2, and S.No. 14/1, 15/Pt., & 15/Pt., 17/Pt. & 18/Pt., & S.No.5, H.No.3A, 3B, 2/2, 5/2, & S.No. 6, H.No. 2A, 2B, 1/2, 1/1Pt and Plot No. 52,53,56&57, S.No.7/Pt.& 8/Pt., Central Park, Vill: More, Tal. Vasai, Dist: Palghar.
9.Taluka	Vasai
10.Village	More
11.Area of the project	VVCMC (Vasai-Virar Municipal Corporation)
12.IOD/IOA/Concession/Plan Approval Number	VVCMC/TP/RDP/VP-273/289/2013-14 dtd 18th November 2013
	IOD/IOA/Concession/Plan Approval Number: VVCMC/TP/RDP/VP-273/289/2013-14 dtd 18th November 2013
	Approved Built-up Area: 79113.83
13.Note on the initiated work (If applicable)	Constructed work on site till date is 20,801.61 Sq.m. (Earlier EC dtd 18th July 2016)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	2,27,946.95 sq.m.
16.Deductions	58,660.51 sq.m.
17.Net Plot area	1,69,286.44 sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 34,072.36
	b) Non FSI area (sq. m.): 45,041.47
	c) Total BUA area (sq. m.): 79,113.83
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	6869.49 sq.m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	58.91%
21.Estimated cost of the project	1525000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1 Building (Wings A,B and C)	B1+B2+Gr.+P1+P2+11 Floors	44.85

23.Number of tenants and shops	Residential Tenements - 300 Nos Shops – 132 Nos.; Offices – 36 Nos.; Stores – 62 Nos.
24.Number of expected residents / users	Residential -1500 Nos ; Shops – 1360 Nos
25.Tenant density per hectare	300
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	20m wide Central Park Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 7.50 m
29.Existing structure (s) if any	Basement, Plinth, Second slab part
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	VVCMC / treated water from STP
	Fresh water (CMD):	165 KLD
	Recycled water - Flushing (CMD):	102 KLD
	Recycled water - Gardening (CMD):	46 KLD
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	313 KLD
	Fire fighting - Underground water tank(CMD):	225 KLD
	Fire fighting - Overhead water tank(CMD):	75 KLD
	Excess treated water	68 KLD

Wet season:	**Source of water**	VVCMC /RWH/ treated water from STP
	Fresh water (CMD):	165 KLD
	Recycled water - Flushing (CMD):	102 KLD
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	267 KLD
	Fire fighting - Underground water tank(CMD):	225 KLD
	Fire fighting - Overhead water tank(CMD):	75 KLD
	Excess treated water	114 KLD
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.5 meter
	Size and no of RWH tank(s) and Quantity:	1 No, 355 CUM RWH TANK
	Location of the RWH tank(s):	Basement 2
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	1 Lakh
	Budgetary allocation (O & M cost) :	0.10 Lakh
	Details of UGT tanks if any :	Domestic Water Tank : 111 CUM Flushing Water Tank : 86 CUM Fire Water Tank : 225 CUM Rain Water Harvesting Tank : 340 CUM Location of tank : Basement 2

35.Storm water drainage	**Natural water drainage pattern:**	Existing Nallah.
	Quantity of storm water:	127 CUM
	Size of SWD:	0.6 m x 0.45 m
Sewage and Waste water	**Sewage generation in KLD:**	240 CUM
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No x 265 CUM
	Location & area of the STP:	Area of STP provided is 304.34 Sq.m. ; Location : Basement
	Budgetary allocation (Capital cost):	53 Lakhs
	Budgetary allocation (O & M cost):	5 Lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Total Excavated soil: 21,501 CuM. Around 30% (6,450 CuM) of material has been used within the project site and rest 15,051 CuM has been used at nearby site of developers ownership for filling. The said site is at around 100m away.
	Disposal of the construction waste debris:	Top soil will used for gardening/landscaping.; Scrap material and other recyclable material like empty cement bags and empty paint cans to be sold to recyclers.;2900 sqm of broken tiles generated to be used as china mosaic for terrace.
Waste generation in the operation Phase:	**Dry waste:**	436 kg/day
	Wet waste:	654 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	10
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	To be hand over to Local Recyclers for recycling
	Wet waste:	To be processed in the OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as a manure
	Others if any:	NA
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	72 sq.m.
	Area for machinery:	Total area required for SWM (collection +curing +machine room) : 72 sq.m.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18 Lakhs
	O & M cost:	2 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	4569.20 Sq.m
	No of trees to be cut :	NA
	Number of trees to be planted :	116 Nos.
	List of proposed native trees :	As mentioned in the List of proposed plantation on ground
	Timeline for completion of plantation :	At the time of completion of the project

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

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

1	Szzygium cumini	Indian black berry (Jamun tree)	10	NA
2	Azadirachta indica	Neem tree	15	NA
3	Bauhinia Variegata	Kanchan tree	10	NA
4	Sterculia foetida	Jangali badam	12	NA
5	Pongamia pinnata	Karanja	15	NA
6	Schleichera oleosa	Koshamra tree	10	NA
7	Spathodea campanulata	Fountain tree	12	NA
8	Sapindus mukorossi	Reetha tree	12	NA
9	Phyllanthus emblica	Amla tree	10	NA
10	Cassia fistula	Bahava tree	10	NA
11	Total	Total	116	NA
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	As per recommendations	As per recommendations	As per recommendations

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	200 KVA
	DG set as Power back-up during construction phase	200 KVA
	During Operation phase (Connected load):	8332 kW
	During Operation phase (Demand load):	5465 kW
	Transformer:	12 NOS. OF 630 KVA
	DG set as Power back-up during operation phase:	1 Nos. 250 (Residential) & 1 Nos. 320KVA (Commercial)
	Fuel used:	LSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Total units saved annually is 57670 kWh/yr.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total units saved annually	57670 kWh/yr

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:**	90 Lakh
	O & M cost:	9 Lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water Environment	Water Sprinkling	1.50
2	Health, Safety & First Aid Facility	Health, Safety & First Aid Facility	2.30
3	Sanitary facility and Wastewater Management	Sanitary facility and Wastewater Management	1.50
4	Environmental Monitoring as per stipulation in EC and Consent.	Environmental Monitoring as per stipulation in EC and Consent.	3.0
5	Total	TOtal	8.30

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Solid Waste Management	OWC	18	2
2	Water Environment	STP	53	5
3	Energy	Energy	90	9
4	Water Environment	RWH system	1	0.1
5	Landscaping	Landscaping	32	3
6	Total	Total	194	19.1

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	20m wide Central Park Road
Parking details:	**Number and area of basement:**	1 nos. (6092.12 m2) for parking
	Number and area of podia:	2nos. (14000.79 m2)
	Total Parking area:	20092.91 sqm
	Area per car:	13.75 m2/9.89 m2 (50:50)
	Area per car:	13.75 m2/9.89 m2 (50:50)
	Number of 2-Wheelers as approved by competent authority:	727 nos
	Number of 4-Wheelers as approved by competent authority:	578 nos
	Public Transport:	NA
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	The project under reference is located at a approx. distance of 7.2 km from the boundary of Tungareshwar Wild Life Sanctuary.
	Category as per schedule of EIA Notification sheet	8a B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	20-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for Environmental Clearance on total plot area of 227946.95 Sq. mtrs, total BUA of 79113.83 Sq. mtrs. and FSI area of 34072.36 Sq. mtrs. PP proposes to construct 1 number of Residential & Commercial buildings with 3 wings having maximum height of 44.85 mtrs.

PP has obtained earlier EC dated 18.07.2016. Now PP has applied for amendment in EC.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2. PP informed that Railway NOC obtained. PP agreed to submit copy of the Court order to ensure that no court matter is pending about said plot.

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP to submit Structural audit certificate of building.
2) PP to submit certified compliance report from RO, MOEF & CC,Nagpur.
3) PP to revise CS with respect to STP area, Tree Numbers, RG area for the project , Parking Numbers, Total/Net Plot area, Number of Buildings and its configuration.

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for "Residential & Commercial Project with PTC Tenements Under SRA Scheme"

Is a Violation Case: No

1.Name of Project	"Residential & Commercial Project with PTC Tenements Under SR Scheme" at Andheri (West), Mumbai by M/s Darshan Developers
2.Type of institution	Private
3.Name of Project Proponent	Darshan Developers Pvt. Ltd.
4.Name of Consultant	Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	SRA Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	CTS No 207, 208,/A/1(pt), 208/A/2, 208/A/3, 208/A/4, 208-B, 209, 210, 211, 215, 249(pt), 264 & 264/1 to 128, Andheri (West), Mumbai
9.Taluka	Andheri
10.Village	Andheri
11.Area of the project	Corporation - MCGM
12.IOD/IOA/Concession/Plan Approval Number	LOI, IOA and Layout Approval
	IOD/IOA/Concession/Plan Approval Number: SRA/ENG/1051/KW/ML/LOI
	Approved Built-up Area: 640504.48
13.Note on the initiated work (If applicable)	Permanent Transit Camp (PTC) construction work initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI from SRA received
15.Total Plot Area (sq. m.)	109,857.71 sqm
16.Deductions	33739.79 sqm
17.Net Plot area	76117.92 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** FSI area = 344568.04 sqm, Fungible area = 80540.04 sqm
	b) Non FSI area (sq. m.): 215396.40 sqm
	c) Total BUA area (sq. m.): 640504.48 sqm
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	28733.12 sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	26%
21.Estimated cost of the project	12500000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Building Type I (15 Nos)	G+16	54.95
2	Rehab Building Type II (3 nos)	G+15	52.05
3	Rehab Building Type III (1 no)	G + 7	27.23
4	PTC Building (1 no)	G+15	52.05
5	Sale Building Type I (11 nos)	3B+G+15	53.25

6	Sale building Type II (1 no)	3B+G+12	43.00
7	Multi utility Structure Building (1 no)	3B+G+14	49.00
8	Retail Market (1 no)	G+3	13.4

23.Number of tenants and shops	Rehab: 4448 flats Sale: 733 flats Shops: 40 Gym:8 Spa: 8 Game Zone:2 Restaurants:9 Banquet hall: 16 Food court: 1
24.Number of expected residents / users	Rehab:22,240 Sale:4,398 Multi Use building:7,472 Total : 34,110
25.Tenant density per hectare	Tenement density: 479 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)	Existing 34.5 m C.D Barfiwala Road (Proposed 36 m)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5m
29.Existing structure (s) if any	4448 no of Slum Hutments and 3 existing buildings
30.Details of the demolition with disposal (If applicable)	Demolition of existing slums in 3 phases. Total area under demolition: 109857.71 m2 (4448 hutments) Total demolition waste: 7930 m3 Disposal as per approved debris management plan.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM, Treated water of STP
	Fresh water (CMD):	2816.34
	Recycled water - Flushing (CMD):	1465
	Recycled water - Gardening (CMD):	38 + 40 (Car wash)
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	4321.25
	Fire fighting - Underground water tank(CMD):	Rehab = 75 m3/bldg and Sale = 150 (2 no in each zone of 4 Bldg)
	Fire fighting - Overhead water tank(CMD):	OHT provided
	Excess treated water	1849.11 KLD
Wet season:	**Source of water**	MCGM, Treated water of STP and RWH
	Fresh water (CMD):	2816.34
	Recycled water - Flushing (CMD):	1465
	Recycled water - Gardening (CMD):	00 + 40 (car wash)
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	4283.25
	Fire fighting - Underground water tank(CMD):	Rehab = 75 m3/bldg and Sale = 150 (2 no in each zone of 4 Bldg)
	Fire fighting - Overhead water tank(CMD):	OHT provided
	Excess treated water	1887.11 KLD
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3.2 m bgl
	Size and no of RWH tank(s) and Quantity:	Total capacity with 33 no of tanks = 805 KL
	Location of the RWH tank(s):	Ground Lvl (underground)
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	Rs. 3550000
	Budgetary allocation (O & M cost) :	Rs. 177500 per annum
	Details of UGT tanks if any :	UG tanks for Domestic, Flushing and Fire tanks provided.
35.Storm water drainage	**Natural water drainage pattern:**	In the Northern part of the project site the natural drainage slope is from North to South. In the Eastern part of the project site the natural drainage slope is from East to West.
	Quantity of storm water:	2.85 cum/sec
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	3758
	STP technology:	MBBR
	Capacity of STP (CMD):	13 no of STP with total capacity 4125 KLD
	Location & area of the STP:	Below Ground
	Budgetary allocation (Capital cost):	Rs. 55000000
	Budgetary allocation (O & M cost):	Rs. 17500000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Demolition waste : 7930 CuM, Excavated Material = 666890 CuM
	Disposal of the construction waste debris:	Excavated material about 180000 CuM to be reused for levelling , landscaping and remaining quantity to be disposed as per the MCGM debris management plan
Waste generation in the operation Phase:	**Dry waste:**	4.752 TPD
	Wet waste:	11.088 TPD
	Hazardous waste:	Not envisaged
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	50 Kg
	Others if any:	Not envisaged

Mode of Disposal of waste:	**Dry waste:**	Shall be managed through recyclers.
	Wet waste:	Shall be processed in OWC to get manure.
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Shall be used as Manure
	Others if any:	Not envisaged
Area requirement:	**Location(s):**	Ground Level
	Area for the storage of waste & other material:	80
	Area for machinery:	30
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 75,00,000
	O & M cost:	Rs. 3,85,000

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

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	7717.32 Sq.m
	No of trees to be cut :	Nil
	Number of trees to be planted :	467
	List of proposed native trees :	Ailanthus excelsa, Albizzia lebbek, Bombax ceiba, Bauhinia purpurea, Butea monosperma, Cassia fistula, Cassia siamea, Aegel marmelos
	Timeline for completion of plantation :	With the completion of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ailanthus excelsa	Tree of heaven	10	It is resistant to drought and soil conditions. It grows well on slopes. The species has been extensively used for soil conservation purposes.
2	Albizzia lebbek	Siris tree	30	India has a well developed trade in siris for sawn timber. The heartwood is dense (specific gravity 0.55-0.60), easily worked and dark brown, with a very distinct boundary from pale sapwood
3	Bombax ceiba	Semal	30	It is a reforestation pioneer plant and survives easily in adverse conditions.
4	Bauhinia purpurea	Kaniar	30	The Purple Orchid Tree is an exotic tropical tree that blooms over a long period of time. The beautiful & fragrant, classic, Orchid-like flowers of Bauhinia purpurea makes this small tree, native to India, a favourite of many plant lovers.
5	Butea monosperma	flame-of-the-forest	12	It is used for timber, resin, fodder, medicine, and dye. The wood is dirty white and soft and, being durable under water, is used for well-curbs and water scoops.
6	Cassia fistula	golden rain tree	40	The flesh of the fruit is used as a laxative, while the bark can be used to treat skin infections.
7	Cassia siamea	Cassia tree	30	windbreaks and shelter belt
8	Aegel marmelos	Bael	6	Flowering and fruit bearing tree.
9	Adenenthera pavonina	Red Lucky Seed	12	his tree is useful for nitrogen fixation, and it is often cultivated for forage, as an ornamental garden plant or urban tree, and as a medicinal plant.
10	Ficus benjamina	Weeping fig	20	The tree provides a dense shade and has an aggressive root system
11	Lagerstroemia duperreana	Crape myrtle	5	important to pollinating insects

12	L. flosreginae	Azhar, Jarul	9	One of the most strikingly showy of flowering trees, and a good shade tree, it is commonly cultivated in gardens or along the sides of roads for its brightly coloured mauve or pink flowers with crinkled petals
13	Mimusops elengi	Bakul	6	The tree is used in rest of the world for its hard wood. In India, it is also used to make garlands from its fragrant flowers. It finds use in many Ayurvedic products. especially those for oral health
14	Polyalthia longifolia	false ashoka	50	commonly planted due to its effectiveness in alleviating noise pollution.
15	Peltophorum ferrugineum	Pivla Gulmohar	30	Flowers are fragrant and have a grape like scent, Plants are hardy and will grow in any soil, It is one of the best trees for shade.
16	Thespesia populnea	Indian Tulip Tree	20	Its good points for aesthetic use are: (1) rapid growth (2) pyramidal form (3) resistance to insect and disease damage (4) unusual leaves and attractive flowers, and (5) yellow autumnal color.
17	Saraca asoca	Ashoka tree	30	It is an important tree in the cultural traditions of the Indian subcontinent and adjacent areas.
18	Azadirachta indica	Neem Tree	15	Neem tree can easily be grown in the dry, stony, shallow and clayey soils. It needs very little water and plenty of sunlight. It grows slowly during the first year of planting. It can be propagated through the seeds and cuttings.
19	Mangifera indica	Mango Tree	5	Mango tree has evergreen leaves which would help absorb more carbon dioxide from the atmosphere
20	Caryota urens	Fishtail palm	30	shade-tolerant or shade-demanding species.
21	Livistonia chinensis	fountain palm	30	shade-tolerant or shade-demanding species.
22	Bismarkia nobilis	Bismarck palm	8	Bismarck palms are easy to grow in the right environment as they are adaptable to a wide range of soils and prefer to have good drainage as the Bismarck does not like to have root rot.
23	Phoenix sylvestris	Indian date palm	9	The fruit is good in heart complaints, abdominal complaints, fevers, vomiting and loss of consciousness
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2

1	Nil	Nil	Nil

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	62807 kW
	During Operation phase (Demand load):	23324 kW
	Transformer:	14 nos of 2000 KVA and 4 no of 1600 KVA
	DG set as Power back-up during operation phase:	2 nos 625 KVA, 1 no 250 KVA, 5 no 1000 KVA, 3 nos 1000 KVA
	Fuel used:	HSD low sulfur content
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Solar lights for common area lighting, street lighting, garden lighting, corridor lighting,
CFL light proposed ,
Use of VFD

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving in Rehab Building (9.6%)	9.6%
2	Energy Saving in Sale Building (15%)	15%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 47,55,000
	O & M cost:	Rs. 1,18,875/- per year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	dust suppression	Rs. 1.5 Lakh
2	Site Sanitation	Septic Tank	Rs. 2 Lakh
3	Environmental Monitoring	Air, Noise, Water etc	Rs. 3 Lakh

4	Disinfection	Site disinfection	Rs. 0.72 Lakh
5	Occupational Health	Health Check-up	Rs. 3.6 Lakh

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	STP	550	175
2	RWH	RWH tanks	35.5	1.77
3	Energy saving	Solar System	47.55	1.19
4	Solid Waste Management	OWC	75	3.85
5	Ecology	Green Belt/Landscape	83.04	29.63

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:	34.5 m D.P Road (C D Barfiwala Road), : 4 Entry & Exit
Parking details:	**Number and area of basement:**	3 no basements, Total basement area = 89012.82 sqm
	Number and area of podia:	Nil
	Total Parking area:	89012.82 sqm
	Area per car:	27 sqm (stack parking)
	Area per car:	27 sqm (stack parking)
	Number of 2-Wheelers as approved by competent authority:	1296
	Number of 4-Wheelers as approved by competent authority:	3348
	Public Transport:	Nil
	Width of all Internal roads (m):	6.0 m wide

	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Out of the ESZ of SGNP
	Category as per schedule of EIA Notification sheet	Category B, 8b
	Court cases pending if any	No
	Other Relevant Informations	No.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

DECISION OF SEAC

PP remained absent.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for PROPOSED "GRAND MEMORIAL OF BHARATRATNA DR. BABASAHEB AMBEDKAR" At Plot bearing F. P. No. 1163, Mahim TPS no IV, Swatantrya Veer Savarkar Road, Dadar (W), Mumbai – 400028 in MMRDA Area.

Is a Violation Case: No

1.Name of Project	MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY (MMRDA)
2.Type of institution	Government
3.Name of Project Proponent	Mr. S. S. Lokare (Executive Engineer, MMRDA)
4.Name of Consultant	Dr. D. A. Patil, MAHABAL ENVIRO ENGG. PVT. LTD.
5.Type of project	"Grand Memorial of Bharatratna Dr. Babasaheb Ambedkar" by MMRDA
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 F. P. no. 1163, Mahim TPS no IV, Swatantryaveer Veer Savarkar Road, Dadar (W), Mumbai – 400028 in SPA Area of MMRDA
9.Taluka	Mumbai
10.Village	Mumbai
Correspondence Name:	Mr. S. S. Lokare (Executive Engineer, MMRDA)
Room Number:	-
Floor:	-
Building Name:	-
Road/Street Name:	-
Locality:	-
City:	-
11.Area of the project	Municipal Authority: Municipal Corporation of Greater Mumbai (MCGM) & Planning Authority: Mumbai Metropolitan Region Development Authority (MMRDA)
12.IOD/IOA/Concession/Plan Approval Number	Single Member Committee approval vide letter No. CMS/TPB/4317/PN-63/2017/UD-11 dt.13/04/2017
	IOD/IOA/Concession/Plan Approval Number: Single Member Committee approval vide letter No. CMS/TPB/4317/PN-63/2017/UD-11 dt.13/04/2017
	Approved Built-up Area: 53149.14
13.Note on the initiated work (If applicable)	Work not started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Single Member Committee approval vide letter No. CMS/TPB/4317/PN-63/2017/UD-11 dt.13/04/2017
15.Total Plot Area (sq. m.)	48,414.83 m2
16.Deductions	8,453.07 m2
17.Net Plot area	39,961.76 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 25,562.50 m2
	b) Non FSI area (sq. m.): 24,775.00 m2
	c) Total BUA area (sq. m.): 50337.5
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	23506.915
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50%
21.Estimated cost of the project	7090000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Entrance Plaza	Ground floor structure	4.8
2	Dr. B. A. Ambedkar Research Centre	2 B+ G floor	12.4
3	Auditorium and Exhibition Block	2B + G + 1st upper floor	17
4	Monument	Ground floor structure Monument with pedestal building	(Base height 30 m and statue height 76.7 m)

23.Number of tenants and shops	NA
24.Number of expected residents / users	Expected visitors per day: 5,250 Nos.
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	27.45 m wide Swatantryaveer Savarkar Marg
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9 m
29.Existing structure (s) if any	India United Mills No 6
30.Details of the demolition with disposal (If applicable)	Existing buildings were demolished and the demolition waste was disposed as per MCGM's directions.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	258 KLD
	Recycled water - Flushing (CMD):	58 KLD
	Recycled water - Gardening (CMD):	57 KLD
	Swimming pool make up (Cum):	Chavdar Pond: 40 KLD
	Total Water Requirement (CMD) :	315 KLD
	Fire fighting - Underground water tank(CMD):	(As per CFO NOC)
	Fire fighting - Overhead water tank(CMD):	(As per CFO NOC)
	Excess treated water	Nil
Wet season:	**Source of water**	MCGM + RWH
	Fresh water (CMD):	168 KLD + 90 KLD
	Recycled water - Flushing (CMD):	58 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	Chavdar Pond: 40 KLD
	Total Water Requirement (CMD) :	315 KLD
	Fire fighting - Underground water tank(CMD):	(As per CFO NOC)
	Fire fighting - Overhead water tank(CMD):	(As per CFO NOC)
	Excess treated water	57 KLD
Details of Swimming pool (If any)	Chavdar Pond: 40 KLD	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3-4 m
	Size and no of RWH tank(s) and Quantity:	2 Nos. of tank having total holding capacity 200 m3
	Location of the RWH tank(s):	Underground Tank
	Quantity of recharge pits:	NA (as the ground water table is very high)
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 46 Lakh
	Budgetary allocation (O & M cost) :	Rs. 2 Lakh/year
	Details of UGT tanks if any :	Underground
35.Storm water drainage	**Natural water drainage pattern:**	Towards West side of the plot
	Quantity of storm water:	5,073.51 m3/hr
	Size of SWD:	750 mm wide X 750 mm deep
Sewage and Waste water	**Sewage generation in KLD:**	115 KLD
	STP technology:	Membrane bioreactor (MBR) technology
	Capacity of STP (CMD):	1 STP with 120 KLD capacity
	Location & area of the STP:	At Utility Building
	Budgetary allocation (Capital cost):	Rs. 50 Lakh
	Budgetary allocation (O & M cost):	Rs. 20 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris: 1,462 m3 & Excavation waste: 1,23,500 m3
	Disposal of the construction waste debris:	The construction debris will be utilized at site for Road Paving and plinth filling
Waste generation in the operation Phase:	**Dry waste:**	550 kg/d
	Wet waste:	825 kg/d
	Hazardous waste:	Used Oil from DG
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	1 KLD
	Others if any:	E-waste, Plastic waste generation

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping.
	Hazardous waste:	Will be handed over to Authorized recyclers
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge will be used as manure for gardening
	Others if any:	The E-waste shall be handed over to E-waste management vendor authorized by MPCB (if any).
Area requirement:	**Location(s):**	Ground level
	Area for the storage of waste & other material:	350 m2
	Area for machinery:	40 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 40 Lakh
	O & M cost:	Rs. 16 Lakh/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	Required RG: 47013.83 X 25% =11,753.45 m2 & Provided: 12,271.00 m2
	No of trees to be cut :	150
	Number of trees to be planted :	Trees on site: 250, Trees to be cut: 150, Tress to be retained: 100, New Trees to be planted: 805, Total Trees (retained + New trees): 905 Nos.
	List of proposed native trees :	As below
	Timeline for completion of plantation :	2-3 year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia lebbeck	Shirish	52	Shady tree, yellowish green fragrant flowers
2	Azadiracta indica	Neem	50	Large tree, good for roadside plantation
3	Ailanthus excelsa	Maharukh	62	Large tree, good for roadside plantation
4	Ficus retusa	Nandruk	48	Shady tree, good for roadside plantation
5	Alstonia scholaris	Satwin	58	Shady Tree, white fragrant flowers
6	Pongamia pinnata	Karanj	56	Shady tree.
7	Saraca asoka	Sita Ashok	58	Shady tree with red-yellow flowers.
8	Anthocephallus cadamba	Kadamb	52	Shady, large tree, ball shaped flowers.
9	Cassia fistula	Bahava	50	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
10	Mimusops elengi	Bakul	55	Shady tree, small white fragrant flowers
11	Lagerstroemia flos-reginеae	Tamhan	42	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
12	Bauhinia racemosa	Apta	56	Small tree with small white flowers, Butterfly host plant
13	Erythrina indica	Pangara	58	Medium sized deciduous tree. Bright scarlet flowers.
14	Caryota urens	Fish tail palm	52	Tall evergreen tree
15	Butea monosperma	Palas	56	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2

1	Nirgudi: Good for Hedge, flowers attract butterflies & moths	-	-
2	Adulasa: Good for Hedge, Medicinal	-	-
3	White plumbago: Beautiful white flowers, Butterfly host plant	-	-
4	Ber: Fast growing & hardy plant	-	-
5	Takala: Butterfly host plant	-	-
6	Tarwad: Butterfly host plant	-	-
7	Krushna kamal: Creeper ; Butterfly host plant, beautiful flowers	-	-

47.Energy

Power requirement:	**Source of power supply :**	Brihanmumbai Electricity Supply and Transport (BEST)
	During Construction Phase: (Demand Load)	200 kVA
	DG set as Power back-up during construction phase	200 kVA
	During Operation phase (Connected load):	2.7 MW
	During Operation phase (Demand load):	1.6 MW
	Transformer:	-
	DG set as Power back-up during operation phase:	2 Nos. x 1250 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar PV panels of total capacity 44 kW and that will be used for street and garden lighting i.e. 2.5% OF MAXIMUM DEMAND

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy saving	20.46%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 35 Lakh
	O & M cost:	Rs. 3.5 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	12.5
2	Site sanitation (Toilets)	-	6
3	Environmental Monitoring	(As per the CPCB guidelines through MoEF Approved laboratories – Ambient Air-RSPM, PM2.5, SO2, NOx, CO), Noise: Leq day time and Night Time)	8
4	Potable Water Supply to Labour Camp	-	8
5	Health check-up & first aid	-	6
6	Safety Personal Protective Equipment	(Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	10
7	Traffic Management	(Sign Boards, Persons at entry exit and Parking area)	5
8	Safety nets	-	2
9	Tyre cleaning and Vehicle maintenance	-	6
10	Solid Waste Management & Site maintenance activity	-	4
11	Safety - Training to Workers (Twice in Year), Safety Officer	-	2.5
12	TOTAL	-	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	STP (Tertiary)	Continuous O & M	50	20
2	Energy Efficiency	Monthly	35	3.5
3	Rain Water Harvesting	Only for filtration plant	46	2
4	Solid waste Composting plant	Continuous O & M	40	16
5	Landscape	Daily	207	31

6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	6
7	-	TOTAL	378	78.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	27.45 M. wide Swatantryaveer Savarkar Marg
Parking details:	**Number and area of basement:**	2 Basement with total area 20,100.00 m2. (Upper Basement = 10,010 m2 & Lower Basement 10,090.00 m2)
	Number and area of podia:	NA
	Total Parking area:	20100 m2
	Area per car:	28.5 m2
	Area per car:	28.5 m2
	Number of 2-Wheelers as approved by competent authority:	100 Nos.
	Number of 4-Wheelers as approved by competent authority:	400 Nos.
	Public Transport:	5 Nos.
	Width of all Internal roads (m):	9 m
	CRZ/ RRZ clearance obtain, if any:	In the procces
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA

	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	The Government of Maharashtra by its Notification No. TPB-4313/CR-44/2013/UD-11 dated 19/03/2013 appointed MMRDA as the Special Planning Authority for development of Grand Memorial of Bharat Ratna Dr. Babasaheb Ambedkar on INDU MILL land. Subsequently, the Govt. of Maharashtra by its Order No. TPB-4313/CR-44/2013/UD-11 dated 20/04/2013 issued directives for performing duties by the MMRDA to develop the Memorial of Bharat Ratna Dr. Babasaheb Ambedkar. Subsequently, a Single Member Committee under the Chairmanship of Hon'ble Minister, Social Justice and Special Assistance was formed vide Govt. Order No. TPB4315/1197/C.N.10/2016/UD-11 dated 14/03/2016 to finalize the conceptual plan of the Grand Memorial. The committee submitted its report to the Government of Maharashtra. The Government of Maharashtra approved the conceptual plan submitted by Single Member Committee in April 2017 and directed MMRDA to prepare detailed plans, estimates and invite tenders for construction of the Memorial.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for prior Environmental Clearance on total plot area of 48414.83 Sq. mtrs, total BUA of 50337.5 Sq. mtrs. and FSI area of 25562.50 Sq. mtrs. PP proposes to construct Entrance Plaza, Research Center, Auditorium& Exhibition Block & Monument having maximum height of 76.7 mtrs

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2.

PP informed that design of plinth of building as well as sewer line and storm water drain will be above High Tide Level (HTL). PP agreed to provide basement for parking in Non CRZ area only. It was also informed that FSI in CRZ portion will be as per 1967 DCR and stated that construction will be on area beyond the landward side of the plinth of the existing authorized structures exiting as on 19.02.1991. PP agreed to provide mechanical ventilation and air purifier in the basement.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to obtain CRZ permission before commencement of construction.
2) PP to submit visitor's management system plan.

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for Proposed Residential and Commercial project at Plot-5, Sec. 23, Kharghar, Navi Mumbai

Is a Violation Case: No

1.Name of Project	Proposed Project
2.Type of institution	Private
3.Name of Project Proponent	Manji Karman Patel
4.Name of Consultant	Building Environment (India) Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot No. 5, Sector-23, Kharghar
9.Taluka	Panvel
10.Village	NA
11.Area of the project	CIDCO
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate
	IOD/IOA/Concession/Plan Approval Number: In process
	Approved Built-up Area: 35292.970
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI
15.Total Plot Area (sq. m.)	8351.870 Sq. Mt.
16.Deductions	Nil
17.Net Plot area	8351.870 Sq. Mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 12487.72
	b) Non FSI area (sq. m.): 22805.25
	c) Total BUA area (sq. m.): 35292.97
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	3087.138
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	36.96%
21.Estimated cost of the project	1754700000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	2 proposed Buildings + 3 wings	Ground + 28 Floors	93.95 Mt. height upto terrace level and 99.80 mt. height upto top level

23.Number of tenants and shops	200 Flats and 14 Shops
24.Number of expected residents / users	1042

25.Tenant density per hectare	256.23
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	40 Meter
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 Meter
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	CIDCO
	Fresh water (CMD):	91.26
	Recycled water - Flushing (CMD):	47.52
	Recycled water - Gardening (CMD):	7.35
	Swimming pool make up (Cum):	15.58
	Total Water Requirement (CMD) :	106.84
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	58.91

Wet season:	**Source of water**	CIDCO and RWH
	Fresh water (CMD):	54.16 (CIDCO) + 37.10 (RWH)
	Recycled water - Flushing (CMD):	47.52
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	15.58
	Total Water Requirement (CMD) :	69.74
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	66.26
Details of Swimming pool (If any)	311.527 Sq. Mt.	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3-4 M
	Size and no of RWH tank(s) and Quantity:	1 tank of capacity 74.25 cu.m. capacity
	Location of the RWH tank(s):	On ground
	Quantity of recharge pits:	recharge pits not proposed since level of water table is high
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	15 Lacs
	Budgetary allocation (O & M cost) :	2.25 Lacs/annum
	Details of UGT tanks if any :	Fire UGT of capacity 150 cum; Residential Domestic: 90 cum; Residential Flushing:45 cum; Commercial Domestic: 1 cum; Commercial Flushing 10 cum

35.Storm water drainage	**Natural water drainage pattern:**	The storm drainage above ground will essentially cater for the seasonal rains. The major part of discharge will be from the roof. The flat roof will have a general slope of 1 in 100 in the screed towards the periphery. Rain water outlets will be provided at the edges from where it will be carried down by UPVC agriculture pipes to discharge water into storm water entrance chambers below ground. The rainfall intensity considered for design is 100 mm per hour. The basement drainage will be through
	Quantity of storm water:	460.78 cu.m/hr
	Size of SWD:	Width 0.45 m; Depth 0.4 m
Sewage and Waste water	**Sewage generation in KLD:**	129.65
	STP technology:	Microfilteration technology based on KSQ Flat sheet membrane
	Capacity of STP (CMD):	1 STP of 135 KLD
	Location & area of the STP:	on Ground
	Budgetary allocation (Capital cost):	35 Lacs/annum
	Budgetary allocation (O & M cost):	3.50 / annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated soil will be used in land leveling purpose &construction debris will be handed over to authorised agency.
	Disposal of the construction waste debris:	Construction debris will be handed over to Authorised agency.
Waste generation in the operation Phase:	**Dry waste:**	140.28
	Wet waste:	327.80
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	3.37
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Handed over to authorised agency
	Wet waste:	Composting through OWC & used at site/as manure.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure within the premises for plants. Excess shall be sold /handover to outside parties or gardens.
	Others if any:	NA
Area requirement:	**Location(s):**	on Ground
	Area for the storage of waste & other material:	70 Sq. Mt.
	Area for machinery:	30 Sq. Mt.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	21 Lacs
	O & M cost:	2.50 Lacs/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1469.595 Sq. mt (869.595 Sq. Mt. on Ground and 600 Sq. Mt. on podium)
	No of trees to be cut :	Nil
	Number of trees to be planted :	104
	List of proposed native trees :	Lemon, Parijata, Bahava, Apta, Sita Asoka, False Ashoka, Palm, Soanchaffa.
	Timeline for completion of plantation :	5 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Lemon	Citrus sp	13	Butterfly host plant having high Air Pollution Index Tolerance (APIT)
2	Parijatak	Nyctanthes arbor-tristis	13	Small deciduous fast growing tree, beautiful flowers
3	Bahava	Cassia Fistula	13	Medium sized deciduous tree Beautiful yellow flowers, Butterfly host plant
4	Apta	Bauhinia racemosa	13	Small tree with small white flowers, Butterfly host plant
5	Sita Asoka	Saraca asoka	13	Shady tree with Red-Yellow Flowers
6	False Asoka	Polyalthia longifolia	13	Tree having high Air Pollution Index Tolerance (APIT)
7	Palm	Areca sp.	13	Ornamental
8	Sonchaffa	Michellia champaca	13	Ornamental
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	Nirgudi, Adulasa, White Plumbago, Ber , Stachytarpheta, Takala, Tarwad, Krushna Kamal	--	600

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	3305 KW
	During Operation phase (Demand load):	2065.60 KVA
	Transformer:	2 transformers of 1250 KVA Capacity
	DG set as Power back-up during operation phase:	1 DG set of 300 KVA capacity
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

REDUCTION IN CONSUMPTION BY USING ENERGY SAVING MEASURE
Savings due to lamp
Savings due to electronic ballast
Savings due to timer / sensor
Savings within apartment with use of Star rated geysers and AC
Saving due to Solar Lights
Saving due to Solar Water Heating

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall Energy Saving	30.45

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:**	solar energy saving 35.50 Lacs
	O & M cost:	4.70 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	1	PPE	5.0
2	2	Site Sanitation Facility	4.0
3	3	Drinking Water Facility	2.0
4	4	Solid Waste Management	2.5
5	5	Safety railing, Platform, Ladder, Crane, Hoist, etc	6.0
6	6	House Keeping	2.0
7	7	Health Check	1.0
8	8	Environmental Monitoring	1.5
9	9	Anti rust coating on foundation steel bars	5.0

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	1	STP	35	3.50
2	2	Rain Water Harvesting	15	2.25
3	3	Solid Waste Management	21	2.50
4	4	Gardening and Landscaping	6	0.50
5	5	Solar PV panel	30.00	3.60
6	6	Solar water heater	5.50	1.10
7	6	DMP	315.71	27.78

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	3 Pofium and Podium area –(First floor = 2829.512 Sq. Mt. , Second Floor = 4604.182 Sq. Mt. ,Third Floor = 4604.182 Sq. Mt.)
	Total Parking area:	3300 Sq. Mt.
	Area per car:	17.01
	Area per car:	17.01
	Number of 2-Wheelers as approved by competent authority:	53
	Number of 4-Wheelers as approved by competent authority:	required = 181 and proposed = 194
	Public Transport:	Kharghar station
	Width of all Internal roads (m):	8 Mt. and 6 Mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8a
	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

Not Available.

Brief information of the project by SEAC

PP submitted their application is for prior Environmental Clearance on total plot area of 8351.870 Sq. mtrs, total BUA of 35298.97 Sq. mtrs. and FSI area of 12487.72 Sq. mtrs. PP proposes to construct 2 number of Residential & Commercial buildings with 3 wings having maximum height of 99.80 mtrs.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2.

During deliberation, PP informed that the construction admeasuring 7000 Sq. Mtrs for A,B,C Building and commercial building construction upto first slab and podium footings pant 40% completed without obtaining the prior Environment Clearance, which is a violation of EIA Notification 2006. Therefore Committee decided to refer the proposal to SEIAA/Environment department for violation of EIA Notification, 2006.

DECISION OF SEAC

Committee decided to refer the proposal to SEIAA/Environment department for violation of EIA Notification, 2006.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for Redevelopment Project

Is a Violation Case: No

1.Name of Project	Redevelopment of Existing Residential Building
2.Type of institution	Private
3.Name of Project Proponent	M/s. Premchand Roychand & Sons LLP
4.Name of Consultant	M/s AQURA Enviro Projects Pvt. Ltd
5.Type of project	Redevelopment of Existing Residential Building
6.New project/expansion in existing project/modernization/diversification in existing project	Redevelopment
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not Applicable
8.Location of the project	C.S. No. 2/231 of Malabar Hill Division in D Ward, Mumbai.
9.Taluka	Mumbai
10.Village	Malabar –Cumballa Hill
11.Area of the project	Municipal Corporation Of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	FSI Letter received from MCGM - EEBP/185/CITY-I dated 13/04/2017
	IOD/IOA/Concession/Plan Approval Number: EEBP/185/CITY-I dated 13/04/2017
	Approved Built-up Area: 23271.87
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MHADA u/No. R/NOC/LOI33(7)/1075/MBRRB-17 dt.08.02.2017
15.Total Plot Area (sq. m.)	5746.14 Sq.m
16.Deductions	978.88 Sq.mt (Road Set back)
17.Net Plot area	4767.26 Sq.mt
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 23234.90 Sq.mt
	b) Non FSI area (sq. m.): 42969.50 Sq.mt.
	c) Total BUA area (sq. m.): 66204.40 Sq.mt.
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	1448.37 Sq.mt
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25.20%
21.Estimated cost of the project	3404606834

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential Building	2 Basements + Ground + 1st to 7th parking floor + 8th amenity floor + 1st to 38th upper Residential floor +3services floor + 2 fire check floor.	186.15 m

23.Number of tenants and shops	Flats : 69 Nos.

24.Number of expected residents / users	Residents: 345, Servants: 69, Floating: 35, Drivers: 128, Security/Utility Personals: 10, Total : 587
25.Tenant density per hectare	Not Applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 m Wide Narayan Dabholkar Marg
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	16.53 m
29.Existing structure (s) if any	Yes. Existing structure is yet to be demolished
30.Details of the demolition with disposal (If applicable)	Existing structure is yet 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

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	61
	Recycled water - Flushing (CMD):	27
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	13.5
	Total Water Requirement (CMD) :	88
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	30
	Excess treated water	19

Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	61
	Recycled water - Flushing (CMD):	27
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	13.5
	Total Water Requirement (CMD) :	88
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	30
	Excess treated water	24
Details of Swimming pool (If any)	Swimming Pool is provided on Amenity Floor	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4.5 to 5.1 m below Ground surface
	Size and no of RWH tank(s) and Quantity:	2 No of tank of each 33 CMD
	Location of the RWH tank(s):	Basement 1 & 2 - Double Heighted Tank
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	32 Lakh
	Budgetary allocation (O & M cost) :	1.6 lakh/year
	Details of UGT tanks if any :	Fire Fighting: 300 Cum Domestic: 62 Cum Flushing: 27 Cum Rainwater Harvesting Tank (1 days Capacity): 66 Cum

35.Storm water drainage	**Natural water drainage pattern:**	Strom water drain are laid at a slope of 1: 150 to the municipal outfall outside the plot. Rainwater from site shall be collected by network of storm water piping system through catch basins and storm channel & then allowed to connect to the public storm water line outside the plot boundary.
	Quantity of storm water:	0.076 cum/sec
	Size of SWD:	300 mm in diameter
Sewage and Waste water	**Sewage generation in KLD:**	53 KLD
	STP technology:	Sequential Batch Reactor (SBR)
	Capacity of STP (CMD):	1 STP of 56 KLD
	Location & area of the STP:	Basement 1 & 2 - Double heighted
	Budgetary allocation (Capital cost):	25 Lakh
	Budgetary allocation (O & M cost):	2.2 lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris
	Disposal of the construction waste debris:	Disposal of construction waste will be as per "Construction and Demolition and De-silting Waste" (Management and Disposal) Rules 2006 at the designated site as directed by the MCGM.
Waste generation in the operation Phase:	**Dry waste:**	81.4 kg/Day
	Wet waste:	122.1 kg/Day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	4 Kg/Day
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Dry waste would be further segregated into recyclable and non-recyclable. Recyclable will be handed over to authorize vendors and non-recyclable will be disposed off at MCGM landfill sites.
	Wet waste:	Wet Garbage will be treated in Mechanical Composting Unit 'Organic Waste Convertor' (OWC) and the compost generated would be used as manure for gardening purpose and excess would be disposed off to landfill site of MCGM or would be sold to authorize vendors.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge would be used as manure for gardening purpose and excess would be handed over to MCGM or would be sold to authorize vendors.
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Ground Floor
	Area for the storage of waste & other material:	40 Sq. m on Ground Floor
	Area for machinery:	10 Sq. m

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 lakh
	O & M cost:	1.5 lakh/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	477 Sq. m
	No of trees to be cut :	29
	Number of trees to be planted :	87 new trees +17 transplanted +16 retained : Total 120 Trees
	List of proposed native trees :	Azadirachta indica, Erythrina indica, Saraca asoka, Lagerstroemia flos-regineae, Cassia fistula, Murraya paniculata, Albizia lebbeck, Putranjiva roxburghi, Bombax ceiba
	Timeline for completion of plantation :	After completion of construction work

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	10	Semi-evergreen tree with medicinal value
2	Erythrina indica	Pangara	10	Medium sized deciduous tree. Bright scarlet flowers.
3	Saraca asoka	Sita Ashok	10	Shady tree with red-yellow flowers
4	Lagerstroemia flos-regineae	Tamhan	10	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
5	Cassia fistula	Bahava	10	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
6	Murraya paniculata	Kunti	10	Small tree, Fragrant white flowers, Butterfly host plant
7	Albizia lebbeck	Shirish	10	Shady tree, yellowish green fragrant flowers
8	Putranjiva roxburghi	Putranjiva	10	Medium sized evergreen tree
9	Bombax ceiba	Kate sawar	7	Large deciduous tree. Flowers attract many birds
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Brihanmumbai Electric Supply & Transport (B.E.S.T.)
	During Construction Phase: (Demand Load)	240 KW
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	5367.55 KW
	During Operation phase (Demand load):	1598 KW
	Transformer:	2 No of 1500 KVA
	DG set as Power back-up during operation phase:	1 No. of 1250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

10.96 % saving by using Solar hot water system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar + ECBC saving	22.22%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	35 Lakh
	O & M cost:	1.5 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water Environment	Drinking water	0.10
2	Health	Sanitation	0.50
3	Health	Health check up	0.50
4	Air Environment	water sprinkling	0.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP & Sewerage network	1 STP of 56 KLD	25	2.5
2	RWH System	2 Nos of tanks of 33 CUM	32	1.6
3	Environmental Monitoring	6 monthly Water, Noise , Air quality analysis	0	5
4	Solid Waste Management	Maintenance of Organic Waste converter	10	1.5
5	Solar Installation	Maintenance of solar hot water system	35	1.5
6	Landscaping	plantation and maintenance of total 120 trees	16	1.6

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	None
Parking details:	**Number and area of basement:**	2 Basements with area 6820 Sq.mt
	Number and area of podia:	8 podiums with area 19521 Sq. m
	Total Parking area:	23771.00 Sq.mt
	Area per car:	55. 15 Sq.mt
	Area per car:	55. 15 Sq.mt
	Number of 2-Wheelers as approved by competent authority:	56
	Number of 4-Wheelers as approved by competent authority:	417
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	Application has been done for public hearing to MPCB
	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	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	20-07-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for prior Environmental Clearance on total plot area of 5746.14 Sq. mtrs, total BUA of 66204.40 Sq. mtrs. and FSI area of 23234.90 Sq. mtrs. PP proposes to construct a Residential buildings having maximum height of 186.15 mtrs.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. Committee noticed that the said plot is leased plot from Collector and renewal of lease is awaited with Collector. Committee also notice that the plot is in CRZ area and CRZ Clearance is also awaited. Therefore, Committee decided to defer the proposal till the Project Proponent obtained and submit necessary permission from concern authority.

DECISION OF SEAC

Committee decided to defer the proposal till the Project Proponent obtained and submit necessary permission from concern authority.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for Amendment and Expansion of " THE RESERVE"- Proposed Residential Project

Is a Violation Case: No

1.Name of Project	Amendment and Expansion of " THE RESERVE"- Proposed Residential Project
2.Type of institution	Private
3.Name of Project Proponent	Runwal Realty Pvt.Ltd
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC received dated 7th October, 2014
8.Location of the project	Plot bearing C.S. No. 2/136 of Lower Parel Division at Haines road, Mumbai
9.Taluka	Mumbai
10.Village	Lower Parel
11.Area of the project	MCGM (Municipal Corporation of Greater Mumbai)
12.IOD/IOA/Concession/Plan Approval Number	IOD received vide letter no. EB/5476/GS/A
	IOD/IOA/Concession/Plan Approval Number: IOD received vide letter no. EB/5476/GS/A
	Approved Built-up Area: 34180
13.Note on the initiated work (If applicable)	1 Residential Tower- 2 Basement, Stilt, 1 podium, 1 service floor, 1 fire check floor + 26 floor as per EC received dated 7th October, 2014
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	1 Residential Tower- 2 Basement, Stilt, 1 podium, 1 service floor, 1 fire check floor + 26 floor as per EC received dated 7th October, 2014
15.Total Plot Area (sq. m.)	7,394.06 sqm
16.Deductions	1423.60 sqm
17.Net Plot area	5,970.46 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 13,981.07
	b) Non FSI area (sq. m.): 25040.25
	c) Total BUA area (sq. m.): 39021.32
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	5,055.53
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	71.97%
21.Estimated cost of the project	4000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1 Residential Tower	2 Basement, Stilt, 1 podium, 1 service floor, 1 fire check floor + 31 floor.	130.9 m

23.Number of tenants and shops	87 nos
24.Number of expected residents / users	435 nos

25.Tenant density per hectare	117 tenants/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	13.40 Mtr. Wide D.P. Road (Manjrekar Lane)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12.00 mt wide
29.Existing structure (s) if any	1 Residential Tower- 2 Basement, Stilt, 1 podium, 1 service floor, 1 fire check floor + 26 floor as per EC received dated 7th October, 2014
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM / treated water from STP
	Fresh water (CMD):	39 KLD
	Recycled water - Flushing (CMD):	20 KLD
	Recycled water - Gardening (CMD):	7 KLD
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	66 KLD
	Fire fighting - Underground water tank(CMD):	250 cum
	Fire fighting - Overhead water tank(CMD):	30 cum
	Excess treated water	22 KLD

Wet season:	**Source of water**	MCGM/RWH/ treated water from STP
	Fresh water (CMD):	39 KLD
	Recycled water - Flushing (CMD):	20 KLD
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	59 KLD
	Fire fighting - Underground water tank(CMD):	250 cum
	Fire fighting - Overhead water tank(CMD):	30 cum
	Excess treated water	29 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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.5 m bgl
	Size and no of RWH tank(s) and Quantity:	80 cum (1 nos)
	Location of the RWH tank(s):	Basement
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs 4 Lakhs
	Budgetary allocation (O & M cost) :	Rs 0.2 Lakhs /Annum
	Details of UGT tanks if any :	Domestic Water Tank 39 KL Flushing Water Tank 20 KL Fire Water Tank 250 KL Rain Water Harvesting Tank 80 KL Location of tank - Basement

35.Storm water drainage	**Natural water drainage pattern:**	N to S
	Quantity of storm water:	0.11 cum/min
	Size of SWD:	0.30m Width, 0.80m Depth
Sewage and Waste water	**Sewage generation in KLD:**	55 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	60 KLD
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	Rs 65 Lakhs
	Budgetary allocation (O & M cost):	Rs 10 lakhs /annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Cement Bags= 200 Bags (Empty bags to be handed over to recycler.), Paint container (@20L)=300 Nos.(To be handed over to recycler.)
	Disposal of the construction waste debris:	Empty bags to be handed over to recycler.,Scrap metal generated Entirely to be sold for recycling
Waste generation in the operation Phase:	**Dry waste:**	87 kg/day
	Wet waste:	131 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	5 kg/day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	To be hand over to Local Recyclers for recycling
	Wet waste:	To be processed in the OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	To be used as a manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	ground
	Area for the storage of waste & other material:	30sqm
	Area for machinery:	4 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 10 Lakhs
	O & M cost:	Rs 2 lakhs /annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	1405.21 Sqm (24%)
	No of trees to be cut :	NA
	Number of trees to be planted :	135 nos
	List of proposed native trees :	same as below
	Timeline for completion of plantation :	by the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Plumeria alba	white frangipani	9	ornamental
2	Dypsis lutescens	Butterfly Palm	33	ornamental
3	Washingtonia robusta	Mexican fan palm	9	ornamental

4	Terminalia mantaly	Variegated Madagascar Almond.	5	ornamental
5	Spathodea campanulata (African tulip tree)	African tulip tree	9	ornamental
6	Millingtonia hortensis	Indian cork tree	6	ornamental
7	Cassia fistula	Indian laburnum	5	ornamental
8	Saraca ashoka	Ashoka tree	5	ornamental
9	Lagerstoemia speciosa	crape-myrtle	13	ornamental
10	Bambusa vulgaris	bamboo	50	ornamental
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	Hymenocallis littoralis	2	300
2	Pennisetum rubrum	2	585
3	Dwarf Heliconia psittacorum	2	523
4	Heliconia psittacorum	2	425
5	Rhapis excelsa	2	385
6	Cymbopogon citratus	2	390
7	Spathiphyllum white	2	315
8	Russelia juncea	2	126
9	Hibiscus rosasinensis	2	120

47.Energy

Power requirement:	**Source of power supply :**	BEST
	During Construction Phase: (Demand Load)	100 kw
	DG set as Power back-up during construction phase	100kva
	During Operation phase (Connected load):	3472 kw
	During Operation phase (Demand load):	1446 kw
	Transformer:	NA
	DG set as Power back-up during operation phase:	750 kva
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Providing T-5 Lamps with Electronic Ballast instead of T-8 fluorescent lamps
Providing LED lamps instead of HPSV / Metal halide lamps for garden area lighting.Common area lighting with CFL/T5 Lamps

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	total energy savings	22.36%

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:**	15 lakhs
	O & M cost:	1 lakh per annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	3
2	Noise Environment	Noise Baricades and Green Belt Developments	2
3	Water Environment	Modular STP , Drainage with sedimentation tanks	2
4	Good Health Practices	Site Sanitation & Health Care	1.5
5	Environment Monitoring	Air,water,noise soil monitoring during construction phase	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	solid waste management	OWC	10	2
2	waste water	STP	65	10
3	solar energy	Energy	20	2
4	RWH system	RWH system	4	0.2
5	green belt	Landscaping	35	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:	12.20 mtr. Wide D.P. Road (Manjrekar Lane)
Parking details:	**Number and area of basement:**	2 nos
	Number and area of podia:	1 nos
	Total Parking area:	4830 sqm
	Area per car:	Basement 1 & 2-34.92 sqm &33.84 sqm • Stilt – 30sqm • Podium – 23.88 sqm
	Area per car:	Basement 1 & 2-34.92 sqm &33.84 sqm • Stilt – 30sqm • Podium – 23.88 sqm
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	219 nos
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m wide
	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	B2 8(a)
	Court cases pending if any	Not applicable
	Other Relevant Informations	Not applicable

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	07-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

DECISION OF SEAC

PP remained absent.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for Renaissance Royal Neral -Residential cum Commercial Complex

Is a Violation Case: No

1.Name of Project	Renaissance Royal Neral
2.Type of institution	Private
3.Name of Project Proponent	Shree Sharada Infrastructures
4.Name of Consultant	Sri Sai Manasa Nature Tech Pvt Ltd
5.Type of project	Residential cum Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	30/3B, 30/30C, 58/1-B, 59/1, 59/2A, 60/1, 60-2A/1, 60/2A/1, 60/2A/3, 6-/2B, 60/2C, 61/1, 61/2
9.Taluka	Karjat
10.Village	Neral
11.Area of the project	Gram Panchayat
12.IOD/IOA/Concession/Plan Approval Number	30/3B, 30/30C etc/2221
	IOD/IOA/Concession/Plan Approval Number: 30/3B, 30/30C etc/2221
	Approved Built-up Area: 24041.9
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	30/3B, 30/30C etc/2221
15.Total Plot Area (sq. m.)	25160
16.Deductions	1723.34
17.Net Plot area	22264.83
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 24038.33
	b) Non FSI area (sq. m.): 3723.108
	c) Total BUA area (sq. m.): 24041.9
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	25160
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	67
21.Estimated cost of the project	584300000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	8	7	23.9

23.Number of tenants and shops	shops: 22, tenants:2184
24.Number of expected residents / users	2228

25.Tenant density per hectare	874
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	20 Feet
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Gram Panchayat Neral
	Fresh water (CMD):	200.73
	Recycled water - Flushing (CMD):	217.31
	Recycled water - Gardening (CMD):	34.99
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	301.83
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	81.22

Wet season:	**Source of water**	Gram Panchayat Neral & Rain water Harvesting
	Fresh water (CMD):	100
	Recycled water - Flushing (CMD):	217.31
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	301.83
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	376.21
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6-9 M
	Size and no of RWH tank(s) and Quantity:	Size :4m*4m*4m, no of Tanks:9 and Quantity: 64
	Location of the RWH tank(s):	Near every building
	Quantity of recharge pits:	9
	Size of recharge pits :	4m*4m*4m
	Budgetary allocation (Capital cost) :	500000
	Budgetary allocation (O & M cost) :	100000
	Details of UGT tanks if any :	The details have been included in Fire NOC.

35.Storm water drainage	**Natural water drainage pattern:**	Natural
	Quantity of storm water:	NA
	Size of SWD:	NA

Sewage and Waste water	**Sewage generation in KLD:**	241.46
	STP technology:	membrane based bio reactor (MBBR) technology
	Capacity of STP (CMD):	STP 1 , capacity : 350
	Location & area of the STP:	Near building H
	Budgetary allocation (Capital cost):	2130000
	Budgetary allocation (O & M cost):	250000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	details have been incorporated in the enclosed EIA report
	Disposal of the construction waste debris:	details have been incorporated in the enclosed EIA report
Waste generation in the operation Phase:	**Dry waste:**	398 kg/day
	Wet waste:	498 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	24.1 KLD
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	details have been incorporated in the enclosed EIA report
	Wet waste:	organic waste converter shall be installed with the capacity of 800 Kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	will be used as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	Near sewage treatment plant
	Area for the storage of waste & other material:	details have been incorporated in the enclosed EIA report
	Area for machinery:	20
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2500000
	O & M cost:	250000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		Not applicable			

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development

Total RG area :	28287.53
No of trees to be cut :	20
Number of trees to be planted :	details have been incorporated in the enclosed EIA report
List of proposed native trees :	details have been incorporated in the enclosed EIA report
Timeline for completion of plantation :	2 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mango Tree	Mango Tree	3	Mangifera indica
2	Jamun Tree	Jamun Tree	3	Syzygium cumini
3	Neem Tree	Neem Tree	3	Azadirachta indica
4	Pepal Tree	Pepal Tree	3	Ficus religiosa
5	Guava Tree	Guava Tree	3	Psidium guajava
6	Coconut Tree	Coconut Tree	3	Cocos nucifera
7	Chickoo Tree	Chickoo Tree	3	Manilkara Zapota
8	Palm Tree	Palm Tree	3	Arecaceae

9	Tamrind Tree	Tamrind Tree	3	Tamarindus indica
10	Bamboo Tree	Bamboo Tree	3	Ficus benghalensis
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	Butterfly	0.5m	5
2	wormwood	0.5m	5
3	yellow leave barberry	0.5m	5
4	Japanese blueberry	0.5m	5

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	3 MW
	During Operation phase (Demand load):	1445.62 KW
	Transformer:	NA
	DG set as Power back-up during operation phase:	1 set, 250 KVA
	Fuel used:	High Speed Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

• Solar Street Lights along pathways and open spaces.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of high energy efficient pumps for fire fighting, UG tanks and STP; • Energy Efficient Lighting using LEDs in Lights, Lobby, Toilets and Common Areas of Buildings;	17.86

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:**	4500000
	O & M cost:	900000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Solar Lighting	Energy	45
2	STP	Sewage	21
3	Solid Waste Management	Waste	25
4	rain Water Harvesting	water	5
5	Landscape Development	Ecology	7

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Solar Lightning	Energy	45	9
2	STP	Sewage	21	2.5
3	Solid Waste Management	Waste Managment	25	2.5
4	Rain Water Harvesting	Water	5	1
5	Landscape dveelopment	Ecology	7	3.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Details have been incorporated in the EIA Report Chapter:5

Parking details:	**Number and area of basement:**	Details have been incorporated in the EIA Report Chapter:5
	Number and area of podia:	Details have been incorporated in the EIA Report Chapter:5
	Total Parking area:	4815.759 sq m open parking area
	Area per car:	3 sq m
	Area per car:	3 sq m
	Number of 2-Wheelers as approved by competent authority:	706
	Number of 4-Wheelers as approved by competent authority:	83
	Public Transport:	Local Trains, Local buses & taxis are Available for transportation
	Width of all Internal roads (m):	12 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Eco sensitive zone Matheran: 7.8 KM
	Category as per schedule of EIA Notification sheet	A (General Conditions applicable 10 Km within Eco sensitive zone)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	17-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for prior Environmental Clearance on total plot area of 25160.00 Sq. mtrs, total BUA of 24041.9 Sq. mtrs. and FSI area of 24038.33 Sq. mtrs. PP proposes to construct 8number of Residential buildings having maximum height of 23.9 mtrs.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2.

PP submited 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. PP informed that this project is Zero Liquid Discharge (ZLD).

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit details of water holding capacity of the ponds to hold treated waste water.
2) PP to submit undertaking that project is not in ESZ and its buffer zone.
3) PP to revise EMP showing fund allocation at construction phase and operational phase.

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for Environmental Clearance for expansion of thr proposed SRA Scheme for Shree Mahalaxmi CHS, Jai Mahalaxmi CHS, Shivraya Sahakari CHS, Shree Sai Ganesh CHS in R/North Ward at Plot bearing CTS No. 1839, 1848, 1849, 1850/1 To 11, 1851, 1852, 1853 of Ovaripada, Dahisar (E), Mumbai

Is a Violation Case: No

1.Name of Project	expansion of thr proposed SRA Scheme for Shree Mahalaxmi CHS, Jai Mahalaxmi CHS, Shivraya Sahakari CHS, Shree Sai Ganesh CHS in R/North Ward at Plot bearing CTS No. 1839, 1848, 1849, 1850/1 To 11, 1851, 1852, 1853 of Ovaripada, Dahisar (E), Mumbai
2.Type of institution	Private
3.Name of Project Proponent	M/s. Ashapura Housing Pvt. Ltd
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	SRA scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC received dtd 30.03.2015 under letter no. SEAC-2013/CR414/TC1
8.Location of the project	Plot bearing CTS No. 1839, 1848, 1849, 1850/1 To 11, 1851, 1852, 1853 of Ovaripada, Dahisar (E), Mumbai
9.Taluka	Borivali
10.Village	Dahisar East
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	Yes
	IOD/IOA/Concession/Plan Approval Number: IOA for Rehab Building 2 received under letter no. SRA/ENG/3003/RN/PL/AP dtd: 16.2.2017, Sale building received under letter no. SRA/ENG/3267/RN/PL/AP dtd: 15.2.2017
	Approved Built-up Area: 65102.515
13.Note on the initiated work (If applicable)	• Rehab Building 1 (B + St + 22 floors) • Rehab building 2 (B +Stilt+ 8th Floor).
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI received (letter vide no. SRA/ENG/2560/RN/PL/LOI, dated 16-10-2012)
15.Total Plot Area (sq. m.)	8556.10
16.Deductions	2593.28
17.Net Plot area	5962.820
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 37953.114
	b) Non FSI area (sq. m.): 27149.401
	c) Total BUA area (sq. m.): 65102.515
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	1431.076 sq.mt
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24 %
21.Estimated cost of the project	1054800000.00

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab building 1	MCGM B + St + 22 floors	68.150
2	Rehab building 2 (2 wings)	B +Gr + 23 floors	69.90

3	Sale Building - Wing A	B +Gr + 23 floors	69.90
4	Sale Building - Wing B	B +Gr + 23 floors	69.90
5	Sale Building - Wing C	B +Gr + 23 floors	69.90
6	Sale Building - Wing D	B +Gr + 17 floors	52.71
7	Sale Building - Wing E	B +Gr + 17 floors	52.71

23.Number of tenants and shops	Rehab Building 1: Residential: 166 Nos. Commercial: 2 nos. BWS: 6 nos. Rehab Building 2: Residential: 281 Nos. Shops: 14 Nos. BWS: 8 nos. Sale Building: Residential: 532 Nos. Shops: 16 nos.
24.Number of expected residents / users	Rehab Building 1: Residential: 830 Nos. Commercial: 6 nos. , Rehab Building 2: Residential: 1445 Nos. Shops: 42Nos., Sale Building: Residential: 2660 Nos. Shops: 48 Nos.
25.Tenant density per hectare	1466 Tenants / hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 m & 13.40 m wide D.P road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9.00 m
29.Existing structure (s) if any	• Rehab Building 1 (B + St + 22 floors) • Rehab building 2 (B +Stilt+ 8th Floor).
30.Details of the demolition with disposal (If applicable)	Existing slums have been demolished and the waste will be disposed as per approved Debris Management Plan.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM/Recycled water
	Fresh water (CMD):	450
	Recycled water - Flushing (CMD):	233
	Recycled water - Gardening (CMD):	6
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	689
	Fire fighting - Underground water tank(CMD):	-
	Fire fighting - Overhead water tank(CMD):	207
	Excess treated water	336
Wet season:	**Source of water**	MCGM /RWH/ STP Treated water
	Fresh water (CMD):	450
	Recycled water - Flushing (CMD):	233
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	683
	Fire fighting - Underground water tank(CMD):	-
	Fire fighting - Overhead water tank(CMD):	207
	Excess treated water	342
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.5 to 3 m below ground
	Size and no of RWH tank(s) and Quantity:	Sale: 32 cum; Rehab 1: 15 cum; Rehab 2: 26 cum
	Location of the RWH tank(s):	Below Ground Level
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 32.00 Lakh
	Budgetary allocation (O & M cost) :	Rs. 1.60 Lakh
	Details of UGT tanks if any :	Domestic: 465 Flushing: 245 Fire fighting tank:
35.Storm water drainage	**Natural water drainage pattern:**	SE to NW
	Quantity of storm water:	0.09 m3/sec
	Size of SWD:	0.3 m x 0.3 m
Sewage and Waste water	**Sewage generation in KLD:**	Rehab 1: 113 KLD, Rehab 2: 189 KLD, Sale: 337 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	Rehab 1: 129 KLD, Rehab 2: 218 KLD, Sale: 388 KLD
	Location & area of the STP:	Below Ground level
	Budgetary allocation (Capital cost):	Rs. 122.00 Lakh
	Budgetary allocation (O & M cost):	Rs. 12.2 Lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Recyclable waste will be generated like empty cement bags & cans, scrap metal etc. Debris & construction waste shall be generated.
	Disposal of the construction waste debris:	Recyclable waste like empty cement bags & empty paint cans shall be handed over to local vendors. Broken tiles shall be used for china mosaic of terrace. Scrap metals shall be sold to recyclers.
Waste generation in the operation Phase:	**Dry waste:**	1069
	Wet waste:	1507
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	32
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to Local Recyclers.
	Wet waste:	Will be processed in the OWC. manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure & replacement of saw dust for OWC
	Others if any:	NA
Area requirement:	**Location(s):**	Ground Level
	Area for the storage of waste & other material:	total area provided: 94.00 sqm
	Area for machinery:	total area provided: 94.00 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 12 lakhs
	O & M cost:	Rs. 4.00 lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	1313.879 sq.mt (22 %)
	No of trees to be cut :	-
	Number of trees to be planted :	75 nos.
	List of proposed native trees :	As listed below
	Timeline for completion of plantation :	At the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Alstonia scholaris	Blackboard tree	10	Evergreen tree
2	Melia azederach	White cedar	12	Flowering tree
3	Callistemon lanceolatus	Crimson Bottle brush	8	Ornamental tree
4	Bauhinia acuminate	White orchid tree	6	Flowering Plant
5	Solanum macranthum	Potato tree	14	Flowering plant
6	Cordia sebastina	Orange Ginger tree	10	Evergreen Tree
7	Polyalathia longifolia	Mast Tree	15	Evergreen tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	6516 KW
	During Operation phase (Demand load):	4160 KW
	Transformer:	NA
	DG set as Power back-up during operation phase:	1 nos. of 320 KVA, 2 no. of 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Lift lobby lights are proposed on High energy efficient lamps (CFL)
2. Also other lights provided on energy saving luminaries like CFL/LED instead of metal halide lamps
3. For parking the lightning power density shall be 0.2 W/sq.ft by using T5 lights instead of T8.
4. All lifts, Ventilation fans shall run on VFD drives which results in energy saving by adjusting speed of motor & delivering only the req. amount of power

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy saving for sale building	5.5 %
2	Total energy saving for Rehab building	4.8 %

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.124 Lakh
	O & M cost:	Rs.6.20 Lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

4	EHS	Disinfection	1.5
5	EHS	Health Check Up	1.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	Rain Water Harvesting	32	1.6
2	Solid waste	OWC	12	4
3	Water Environment	STP	122	1.2
4	Energy	Solar system	124	6.2
5	Land Environment	Landscaping	15	2

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site is accessible through the existing 10 m wide & 15 m wide road
Parking details:	**Number and area of basement:**	3269.844
	Number and area of podia:	NA
	Total Parking area:	7360 sq.m
	Area per car:	40 sq.m
	Area per car:	40 sq.m
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	184 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m wide internal roads.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park (1.20 km)
	Category as per schedule of EIA Notification sheet	Schedule 8(a), Category B
	Court cases pending if any	NA
	Other Relevant Informations	The proposed project is expansion project.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	24-03-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for Environmental Clearance for exansion of the proosed SRA scheme on total plot area of 8556.10 Sq. mtrs, total BUA of 65102.515 Sq. mtrs. and FSI area of 37953.114 Sq. mtrs. PP proposes to construct 7 number of Residential buildings (2 Rehab buildings&5Sale buildings) having maximum height of 69.90 mtrs.

PP has obtained earlier EC dated 30.03.2015. PP has applied for amendment in EC

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2.

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP to submit certified compliance report of earlier EC from RO, MOEF & CC,Nagpur.
2) PP to revise CS giving correct details of Building Configuration, Total built of area, estimated cost, No. of tenants and shops, No. expected residents, Heights of buildings, existing structures, total water requirement, details of total water consumed, rain water harvesting, sewage and waste water, solid waste management, green belt development, energy details calculation and percentage of savings, details of pollution control system, EMP (Operation phase) and Traffic management
3) PP to submit structural stability certificate.
4) PP to submit revised fire tender movement plan with car parking which is shown adjacent to the road and carriage way should be hatched with yellow diagonal line indicating NO PARKING and paint yellow and black colour stripes on it to ensure no blockage of traffic.
5) PP to carry out Traffic Impact Study in detail including.
6) Traffic Management Plan for the development – Internal circulation with road width.
7) Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project.
8) Topographic details of roads and intersections.
9) Traffic generation per day/peak hour V/c ratio with reference to present capacity of roads, V/c Ratio with reference to future capacity of widened roads.
10) Inventory of open spaces for parking as per DCR/area provided/car as per MoEF construction manual.
11) Proper drawings and sketches showing road geometry and traffic volume diagrams etc.
12) If applicable, PP to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for 'JAIBHARAT KANDIVALI SRA CHS.LTD. & SAI DARSHAN SRA SAHAKARI GRUHNIRMAN SANSTHA MARYADIT'- Expansion of Proposed Residential & Commercial Project on Plot bearing No.CTS 471-A (Pt.), Lalji Pada New Link Road, Kandivali (W) Mumbai - 400067, by M/s. Raj Arcades Homes Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	'JAIBHARAT KANDIVALI SRA CHS.LTD. & SAI DARSHAN SRA SAHAKARI GRUHNIRMAN SANSTHA MARYADIT'- Expansion of Proposed Residential & Commercial Project
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajesh Savla M/s. Raj Arcades Homes Pvt. Ltd.,C/101,Ratnakar, Opp. Ekta Bhoomi classic, Mahavir Nagar, Kandivali (W), Mumbai-400 067
4.Name of Consultant	Mr. H.K. Desai Enviro Analysts & Engineers Pvt. Ltd.,B-1003, Enviro House Western Edge II, Behind Metro Mall Western Express Highway Borivali (E), Mumbai-400066
5.Type of project	SRA Scheme.
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	EC received dated 01-02-2016 (SEAC-2013/CR-259/TC-1) , Total BUA= 31844.05 sq.m.
8.Location of the project	Plot bearing CTS No. 471-A (Pt.) of village -Kandivali, Lalji Pada New Link Road, Kandivali (W) Mumbai -400067
9.Taluka	borivali
10.Village	kandivali
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	approvals recieved dtd 05-05-2017
	IOD/IOA/Concession/Plan Approval Number: SRA/ENG/3124/RS/STGL/AP dated 5th May, 2017.
	Approved Built-up Area: 42705.92
13.Note on the initiated work (If applicable)	Constructed FSI area = 14827.41 sq.m., Constructed Non FSI area = 6535.63 sq.m. ,Total constructed BUA= 21363.04 sq.m.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Revised SRA LOI Granted dated: 02-02-2017 Under No.: SRA/ENG/1030/RS/STGL/LOI
15.Total Plot Area (sq. m.)	5885.00 sq.m.
16.Deductions	656.50 sq.m.
17.Net Plot area	5228.50 sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Sale = 13684.46sq.m., Rehab = 9855.54 sq.m., total = 23540.00sq.m, Fungible FSI area for Sale = 4789.56 sq.m., Rehab = 1895.56 sq.m., Total = 6685.12 sq.m.
	b) Non FSI area (sq. m.): Sale = 6196.38sq.m., Rehab = 6284.42 sq.m., total = 12480.80 sq.m.
	c) Total BUA area (sq. m.): 42705.92
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	2226.81sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	42.59 %
21.Estimated cost of the project	1394700000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Bldg.-Wing A	Ground + 23 (pt) Floors	69.95

2	Rehab Bldg.-Wing B	Ground + 23 (pt) Floors	69.95
3	Sale Bldg.-Wing A	Stilt + 1-23 (Pt) Floors	69.90
4	Sale Bldg.-Wing B	Stilt + 1-23 Floors	69.90
5	Sale Bldg.-Wing C	Stilt + 1-23 Floors	69.90
6	Sale Bldg.-Wing D	Stilt + 1-23 Floors	69.90
7	Parking Tower	-	69.90

23.Number of tenants and shops	Sale Tenements=328 Nos. Rehab Tenements =338Nos. Rehab Res.+ Comm.=12Nos. Rehab shops= 29Nos. Balwadi, welfare & society office, Amenity Structure 12(give separately) Balwadi=4, Welfare Centre = 4, Society Office=3, Temple =1
24.Number of expected residents / users	Sale Bldg. = 1640, rehab = 1750, rehab Shops =87, others = 153, total = 3630 Nos.
25.Tenant density per hectare	6943 Nos./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)	36.60 M wide Existing New Link road and 6.0 m wide existing 63 K road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6.0 m
29.Existing structure (s) if any	construction of the buildings started as per the EC receoved dated 01-02-2016.Rehab A Wing – Gr. + 12 Floors - – 4624.37 sq.m Rehab B Wing – Gr. + 13 Floors – 4977.96 sq.m Sale A Wing – Stilt + 11 Floors – 3906.74 sq.m Sale B Wing – Stilt + 11 Floors – 3642.39 sq.m. Sale C Wing – Stilt + 10 Floors – 2325.29 Sq.m. Sale D Wing – Stilt + 10 Floors -1886.29 Sq.m.
30.Details of the demolition with disposal (If applicable)	Waste generated during demolition of slum units was disposed as per debris management plan.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM/ Recycled water
	Fresh water (CMD):	Rehab +Sale =Total, 148+ 160=308
	Recycled water - Flushing (CMD):	84 + 74=158
	Recycled water - Gardening (CMD):	2
	Swimming pool make up (Cum):	6 cum
	Total Water Requirement (CMD) :	468
	Fire fighting - Underground water tank(CMD):	Rehab:200 cum, Sale :200 cum,
	Fire fighting - Overhead water tank(CMD):	Rehab : 2 nos. of 30cum, Sale : 4 nos. of 30 cum
	Excess treated water	233
Wet season:	**Source of water**	MCGM/RWH Tank/Recycled water
	Fresh water (CMD):	Rehab +Sale =Total,148+ 160=308
	Recycled water - Flushing (CMD):	84 + 74=158
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	6 cum
	Total Water Requirement (CMD) :	466
	Fire fighting - Underground water tank(CMD):	Rehab:200 cum, Sale :200 cum,
	Fire fighting - Overhead water tank(CMD):	Rehab : 2 nos. of 30cum, Sale : 4 nos. of 30 cum
	Excess treated water	235
Details of Swimming pool (If any)	swimming pool is provided for sale building.	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2 m.
	Size and no of RWH tank(s) and Quantity:	Rehab: 49cum Sale: 66 cum(2 days capacity)
	Location of the RWH tank(s):	under ground level
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 6.0 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 0.3Lakhs
	Details of UGT tanks if any :	Rehab Bldg. = domestic= 165 cum, Flushing=85cum Sale Bldg. = domestic= 150cum, Flushing=80cum fire UG= 200 cum each
35.Storm water drainage	**Natural water drainage pattern:**	North to South
	Quantity of storm water:	0.05 cum / sec.(Actual discharge) • 0.25 cum/sec.(Design Capacity)
	Size of SWD:	0.40 x 0.30 mt.
Sewage and Waste water	**Sewage generation in KLD:**	437KLD (Rehab :229 KLD: Sale 208 KLD)
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	480 KLD (Rehab:250 KLD, Sale: 230KLD)
	Location & area of the STP:	ground level
	Budgetary allocation (Capital cost):	Rs. 48Lakhs
	Budgetary allocation (O & M cost):	Rs. 7Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris has been disposed off by covered trucks to the authorized sites with the permission of MCGM.
	Disposal of the construction waste debris:	Debris will be used for backfilling and counterweight of raft, road works, etc. Brickbats will be used for waterproofing. Reinforcement will be sent for reuse Nominal surplus construction debris shall be disposed of by covered trucks to the authorized sites with the permission of MCGM.
Waste generation in the operation Phase:	**Dry waste:**	392 + 328=720kg/day (Rehab + Sale)
	Wet waste:	543+ 492 =1035kg/day (Rehab + Sale)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	13Kg/day
	Others if any:	nil

Mode of Disposal of waste:	**Dry waste:**	Will be managed through recyclers.
	Wet waste:	Biodegradable waste will be processed in OWC and manure so obtained will be used for landscaping and replacement for dry manure in OWC.
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	Used as a manure
	Others if any:	nil
Area requirement:	**Location(s):**	at ground level
	Area for the storage of waste & other material:	37 sq.m. Rehab and 34 sq.m. for Sale.
	Area for machinery:	12 sq.m.for each
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 24.0 Lakhs
	O & M cost:	Rs. 5.0Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	438.53sq.m.(8%)
	No of trees to be cut :	nil
	Number of trees to be planted :	52 Nos.
	List of proposed native trees :	as below
	Timeline for completion of plantation :	at the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mimusops elengii	Bakul	10	Flowering
2	Saraca indica	Sita asoka	17	evergreen tree
3	Plumeria alba	champa	5	flowering
4	Michelia champaca	Son champa	9	flowering
5	Erythrina indica	Pangara	11	deciduous tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Reliance Energy
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	3381KW
	During Operation phase (Demand load):	2061KW
	Transformer:	NA
	DG set as Power back-up during operation phase:	Rehab = 320 KVA,Sale = 320 KVA
	Fuel used:	LSD
	Details of high tension line passing through the plot if any:	NIL

48.Energy saving by non-conventional method:

1. common area lighting on solar
2.T5, T8 lights
3. LED Lights
4. Lift- VFD & regenerative type
5. Solar hot water system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	as above	Rehab = 12%, Sale = 12.4%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 61.0 Lakhs
	O & M cost:	Rs. 3.0Lakhs

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 Environemnt	dust suppression	2.5
2	Land Environment	site sanitation	2.0
3	Environmental Monitoring	For Air, Noise, Water Analysis	15.0
4	EHS	Disinfection	1.75
5	EHS	Health Check Up	3.6

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	water environment	Rain Water Harvesting	6	0.3
2	land environment	solid waste managment	24	5.0
3	water environment	STP	48	7
4	Energy Saving	Solar Energy System	61	3
5	Land Environment	Landscaping	10	0.50

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Site is abutting to 36.60 m wide New Link Road and 6.00 m wide existing 63k road.
Parking details:	**Number and area of basement:**	nil
	Number and area of podia:	nil
	Total Parking area:	3991.13 sq.m.,3 Parking Towers having 141 parkings covering an area of 3242.60 sq.mtr.,stilt Parking: 44 Parkings having an area of 748.53sq.mtr.
	Area per car:	21.57sq.m.
	Area per car:	21.57sq.m.
	Number of 2-Wheelers as approved by competent authority:	52 Nos.
	Number of 4-Wheelers as approved by competent authority:	185Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park = 4.60 km
	Category as per schedule of EIA Notification sheet	Schedule 8a, Category B
	Court cases pending if any	Nil
	Other Relevant Informations	this project is an Expansion project. Previously grant EC dated 01-02-2016 (SEAC-2013/CR-259/TC-1)
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	08-05-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

DECISION OF SEAC

PP remained absent.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for AMENDMENT IN EC Development of proposed amalgamated and subdivided plots for Kalpataru, Jaykalimata and Jay-Bajrangbali CHS SOC

Is a Violation Case: No

1.Name of Project	Development of proposed amalgamated and subdivided plots for Kalpataru, Jaykalimata and Jay-Bajrangbali CHS SOC
2.Type of institution	Private
3.Name of Project Proponent	Pushpa Construction Co.
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	SRA
6.New project/expansion in existing project/modernization/diversification in existing project	MODERNISATION
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	C.S.No 181(pt) & 509(pt) at Babujagjivanram nagar and Khamdev nagar at Dharavi-Division, Dharavi Mumbai 400017.
9.Taluka	MUMBAI
10.Village	DHARAVI
11.Area of the project	MCGM (Municipal Corporation of Greater Mumbai)
12.IOD/IOA/Concession/Plan Approval Number	LOI given by SRA vide letter no. SRA/Eng/568/GN/ML/LOI, dated 21.2.2007 Letter from UD no. TPB 4309/2317/pk350/09/ud11, dated 14/11/2011 for 3 FSI
	IOD/IOA/Concession/Plan Approval Number: SRA/Eng/568/GN/ML/LOI, UD no. TPB 4309/2317/pk350/09/ud11
	Approved Built-up Area: 43230.30
13.Note on the initiated work (If applicable)	NOT APPLICABLE
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI given by SRA vide letter no. SRA/Eng/568/GN/ML/LOI, dated 21.2.2007 Letter from UD no. TPB 4309/2317/pk350/09/ud11, dated 14/11/2011 for 3 FSI
15.Total Plot Area (sq. m.)	5700.04
16.Deductions	2197.95
17.Net Plot area	3502.09
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 25,645.69
	b) Non FSI area (sq. m.): 13,074.15
	c) Total BUA area (sq. m.): 43230.30
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	1873.33
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	46.51
21.Estimated cost of the project	900000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)

1	Bldg no. 1 (residential sale building and Rehab commercial shops at ground floor consisting of 4 basement + 4 wings A/B/C)/D and bldg no. 1A (rehab commercial)	4 B +4 wings A/B/C & D wing. (GR to 22nd floor @ part 23rd floor for residential use)	69.90

23.Number of tenants and shops	TENANTS: 313 SHOPS: 39
24.Number of expected residents / users	1565 (residents) + 78(shop users) = 1643
25.Tenant density per hectare	549
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 m; nearest fire station is Shahu nagar, Mahim (E) about 1 KM.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	27m existing road towards North (proposed 36m), 9m proposed road towards East and West, 6m internal road towards south
29.Existing structure (s) if any	31 slums shops (to be rehabilitated)
30.Details of the demolition with disposal (If applicable)	The existing slums on the plot will be demolished and rehabilitated on the same site as a part of the proposed development.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	142.02
	Recycled water - Flushing (CMD):	72.765
	Recycled water - Gardening (CMD):	3.39935
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	218.2
	Fire fighting - Underground water tank(CMD):	3 X 100 CUM
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	72.9
Wet season:	**Source of water**	MCGM
	Fresh water (CMD):	142.02
	Recycled water - Flushing (CMD):	72.765
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	214.785
	Fire fighting - Underground water tank(CMD):	3 X 100 CUM
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	76.3
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.00 m to 5.00 m below existing ground level
	Size and no of RWH tank(s) and Quantity:	1no. x 15 m3
	Location of the RWH tank(s):	1st level basement (bldg no.1)
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	4.5
	Budgetary allocation (O & M cost) :	1.00
	Details of UGT tanks if any :	1 no. of UG tank in rehab building no. 2, 1 no. of UG tank in rehab building no. 3, 1 no. of UG tank in Rehab building no. 4 each wing A & B
35.Storm water drainage	**Natural water drainage pattern:**	Rainwater down take pipe sizing could be designed as per the max, rainfall 150mm/hr
	Quantity of storm water:	Rainwater down take pipe sizing could be designed as per the max, rainfall 150mm/hr
	Size of SWD:	Rainwater down take pipe sizing could be designed as per the max, rainfall 150mm/hr
Sewage and Waste water	**Sewage generation in KLD:**	186.381
	STP technology:	MBBR
	Capacity of STP (CMD):	1 NO AND 201 CMD
	Location & area of the STP:	1st basement (upper)
	Budgetary allocation (Capital cost):	4000000
	Budgetary allocation (O & M cost):	600000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	approx 1-3 MT/Month
	Disposal of the construction waste debris:	Construction debris will be used for backfilling purpose and excess will be disposed off through solid waste management facility
Waste generation in the operation Phase:	**Dry waste:**	309.34
	Wet waste:	429.56
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.14
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	segregation and sale of recyclables, inters to approved landfill site.
	Wet waste:	biodegradable waste to compost.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	mix with wet waste and convert that into compost
	Others if any:	NA
Area requirement:	**Location(s):**	GROUND
	Area for the storage of waste & other material:	54.13
	Area for machinery:	54.13 SQ.M INCLUDING AREA FOR MACHINERY
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1000000
	O & M cost:	200000

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	679.87
	No of trees to be cut :	6
	Number of trees to be planted :	30
	List of proposed native trees :	LIST OF TREES IS GIVEN AS UNDER
	Timeline for completion of plantation :	4 YEARS FROM START OF CONSTRUCTION

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Aegle marmelos	Beal Tree	2	eciduous shrub or small to medium sized tree, up to 13m tall with slender drooping branches
2	Alstonia scholaris	Chattiyan	7	glabrous tree and grows up to 40 m (130 ft) tall. Its mature bark is grayish and its young branches
3	Azadirachta indica	Neem Tree	4	fast-growing tree that can reach a height of 15–20 metres (49–66 ft), and rarely 35–40 metres (115–131 ft). It is evergreen
4	Lagerstroemia speciosa	Queen Crape Myrtle	2	deciduous or semi-deciduous small to medium-sized or rarely large tree up to 40(45) m tall
5	Millingtonia hortensis	Indian Corck	6	height of between 18 and 25 metres and has a spread of 7 to 11 metres
6	Mimusops elengi	Bakuli	4	evergreen tree reaching a height of about 16 m, Leaves are glossy, dark green, oval-shaped
7	Polyalthia longifolia	Ashok	3	beautiful foliage and fragrant flowers. It is a handsome, small, erect evergreen tree, with deep green leaves growing in dense clusters
8	Spathodea campanulata	Indian Tulip Tree	2	flower bud is ampule-shaped and contains water
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Public source
	During Construction Phase: (Demand Load)	200 KW
	DG set as Power back-up during construction phase	AS PER LOAD REQUIREMENT
	During Operation phase (Connected load):	3091.25
	During Operation phase (Demand load):	3091.25
	Transformer:	NA
	DG set as Power back-up during operation phase:	1 x 50 KVA, 1 x 70 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy efficient fluorescent bulb lights which give approximately 30% more light output for the same watts consumed. Compact fluorescent lamps will be incorporated in corridors, toilets and all circulation areas.
Power factor for the complete electrical system be maintained near to 0.95; this will reduce electrical power distribution lossess in the installation.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	nergy efficient fluorescent bulb lights which give approximately 30% more light output for the same watts consumed. Compact fluorescent lamps will be incorporated in corridors, toilets and all circulation areas. Power factor for the complete electrical system be maintained near to 0.95; this will reduce electrical power distribution lossess in the installation.	NA

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15
	O & M cost:	0.2

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Debris/Top soil Management	NA	30

2	Transplantation of trees	NA	10
3	Toilets for labour + drinking water + first aid arrangement	NA	10

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	NA	40	6
2	Solid Waste Management	NA	10	2
3	Rain Water Harvesting	NA	4.5	1
4	Green Belt	NA	0.5	0.15
5	ENERGY SAVING FEATURES	NA	15	0.2

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:**	4 nos. & 11,188
	Number and area of podia:	NA
	Total Parking area:	10000
	Area per car:	32
	Area per car:	32
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	312
	Public Transport:	NA
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

DECISION OF SEAC

PP remained absent.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for Application for Amendment in Environment Clearance in "Proposed Redevelopment Project" at plot bearing C.S. No. 128,129 & 130, Lower Parel Division, G/S ward, Dr. E. Moses Road, Worli, Mumbai- 400 018. State- Maharashtra.

Is a Violation Case: No

1.Name of Project	Oricon Properties Pvt. Ltd.-
2.Type of institution	Private
3.Name of Project Proponent	Mr. Purav Kiranbhai Acharya
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., F-7, Road No. 21, Wagle Estate, Thane (West)-400604, Maharashtra
5.Type of project	Mixed Redevelopment residential (rehabilitation) and commercial buildings with shops and reservation school building
6.New project/expansion in existing project/modernization/diversification in existing project	Modernization-Amendment in Environment Clearance
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	We have received Environment Clearance obtained from Government of Maharashtra File No. SEAC-2013/CR 502/TC-1 Dated 1st December, 2014
8.Location of the project	C.S. No. 128, 129 & 130, Lower Parel Division, G/S ward, Dr. E. Moses Road, Worli, Mumbai-400018
9.Taluka	Mumbai
10.Village	Mumbai
11.Area of the project	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	IOD AND MHADA NOC received
	IOD/IOA/Concession/Plan Approval Number: IOD File no. EB/7060/GS/A dated 27.06.2014 and MHADA NOC Received dated 06.06.2013
	Approved Built-up Area: 28795.22
13.Note on the initiated work (If applicable)	No Work has been started yet
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD File no. EB/7060/GS/A dated 27.06.2014 and MHADA NOC Received dated 06.06.2013
15.Total Plot Area (sq. m.)	7,810 sq.mt.
16.Deductions	-
17.Net Plot area	7,810 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 28,795.22 sq.mt.
	b) Non FSI area (sq. m.): 37,466 sq.mt.
	c) Total BUA area (sq. m.): 66,261 sq.mt.
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	3,930 sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50.32%
21.Estimated cost of the project	3730000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Reservation Secondary School (Building 3)	3 Basements + Ground + 8 Floors	24.45

2	Sale (Building 2)	3 Basements + Ground + 1st to 19th Upper Floors + 20th (Part) Floors	84.60
3	Redevelopment (Building 1) Rehab Wing A	1 Basements + Ground (shops)+ Service floor + 13 Floors	44.85
4	Redevelopment (Building 1A) Rehab Wing B	3 Basements + Ground +1st to 21st Floors	69.40

23.Number of tenants and shops	282 Nos.
24.Number of expected residents / users	4,855 Nos.
25.Tenant density per hectare	361.54/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)	Main road 30 m D.P. road & Internal road 6 m, 12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	There were existing chawls on site which are demolished and existing tenants shall be rehabilitated in proposed redevelopment buildings
30.Details of the demolition with disposal (If applicable)	Debris generated due to demolition disposed off as per approved Debris Management NOC

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Municipal Corporation of Greater Mumbai (MCGM)
	Fresh water (CMD):	215
	Recycled water - Flushing (CMD):	144
	Recycled water - Gardening (CMD):	150
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	509
	Fire fighting - Underground water tank(CMD):	700
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	Nil
Wet season:	**Source of water**	Municipal Corporation of Greater Mumbai (MCGM)
	Fresh water (CMD):	215
	Recycled water - Flushing (CMD):	144
	Recycled water - Gardening (CMD):	150
	Swimming pool make up (Cum):	Not Applicable
	Total Water Requirement (CMD) :	507
	Fire fighting - Underground water tank(CMD):	700
	Fire fighting - Overhead water tank(CMD):	Not Applicable
	Excess treated water	Nil
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.50 m to 3.40 m
	Size and no of RWH tank(s) and Quantity:	200 m3
	Location of the RWH tank(s):	at Basement level
	Quantity of recharge pits:	4 Nos. recharge pits
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	Rs.18 Lakh
	Budgetary allocation (O & M cost) :	Rs.1.5 Lakh/year
	Details of UGT tanks if any :	Reservation Secondary School (Building 3), UGT Domestic Capacity-18 m3, UGT Flushing Capacity-22 m3, UGT Fire Fighting Capacity-450 m3 Sale (Building 2) UGT Domestic Capacity-46 m3, UGT Flushing Capacity-280 m3, UGT Fire Fighting Capacity-450 m3 Redevelopment (Building 1&1A) Rehab (Wing A & B), UGT Domestic Capacity-117 m3, UGT Flushing Capacity-59 m3, UGT Fire Fighting Capacity-250 m3
35.Storm water drainage	**Natural water drainage pattern:**	along the road side
	Quantity of storm water:	0.02208 m3/sec
	Size of SWD:	450 mm diameter
Sewage and Waste water	**Sewage generation in KLD:**	300 m3/day
	STP technology:	SBR (Sequential Batch Reactor)
	Capacity of STP (CMD):	Total 3 nos. of STP having total capacity 340 m3/day., 1 no. of STP for Redevelopment (Building 1&1A) Rehab Building (Wing A & B)-175 m3/day, 1 no. of STP for Sale (Building 2)-125 m3/day, 1 no. of STP for Reservation Secondary School (Building 3)-40 m3/day
	Location & area of the STP:	at Basement Level
	Budgetary allocation (Capital cost):	Rs.68 Lakh
	Budgetary allocation (O & M cost):	Rs.4 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	250 kg/day
	Disposal of the construction waste debris:	Debris generated will be sent to the authorized debris disposal site as per
Waste generation in the operation Phase:	**Dry waste:**	350 kg/day
	Wet waste:	664 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	3 kg/day
	Others if any:	E-waste 16 kg/day

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed of to recyclers.
	Wet waste:	Wet garbage will be treated by using Organic waste converter machine.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Dry sludge can be used as manure for plantation & gardening purposes inside the premise.
	Others if any:	E-waste Authorized hazardous waste management agencies
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	60 sq.mt.
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.13 Lakh
	O & M cost:	Rs.1 Lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	626.71 sq.mt.
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	42
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	1-2 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cocos nucifera	Coconut	-	Fruit bearing tree
2	Azadirachta indica	Neem	-	Medicinal tree
3	Peltophorum pterocarpum	Copper Pod	-	It is deciduous tree growing 15-25m, it is widely grown in tropical regions as an ornamental tree
4	Termilania catappa	Badam	-	Terminalia catappa is a large tropical tree The tree grows to 35 m The fruit is edible, tasting slightly acidic.
5	Saraca asoca	Ashoka	-	The ashoka is a rain-forest tree Its flowering season is around February to April. The ashoka flowers come in heavy, lush bunches. They are bright orange-yellow in color, turning red before wilting.
6	Neolamarckia cadamba	Kadamba	-	kadam locally, is an evergreen, tropical tree native to South and Southeast Asia A fully mature kadam tree can reach up to 45 m (148 ft) in height. It is a large tree with a broad crown and straight cylindrical bole
7	Neolamarckia cadamba	Kadamba	-	kadam locally, is an evergreen, tropical tree native to South and Southeast Asia A fully mature kadam tree can reach up to 45 m (148 ft) in height. It is a large tree with a broad crown and straight cylindrical bole
8	Bauhinia variegata	Kanchana	-	Flowering plant It is a small to medium sized deciduous tree growing to 17 m tall and this flower extract is made from the gum of the bark and is used for medicinal purposes
9	Cassia Fistula	Bahava	-	Insect attracting tree

10	Mangifera indica	Mango	-	It is a large fruit-tree, capable of a growing to a height and crown width of about 100 feet and trunk circumference of more than twelve feet
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	Jaswand	-	-
2	Tulsi	-	-
3	Parijat	-	-
4	Safed Kachnar	-	-
5	Bougainvillea	-	-
6	Kanher	-	-
7	Candle bush	-	-
8	Raat rani	-	-
9	Tagar	-	-
10	Morvel	-	-
11	Vanjai	-	-
12	Clerodendrum	-	-
13	Anant	-	-
14	Bird of paradise	-	-
15	Ixora	-	-

47.Energy

Power requirement:	**Source of power supply :**	Brihanmumbai Electric Supply and Transport (BEST)
	During Construction Phase: (Demand Load)	-
	DG set as Power back-up during construction phase	-
	During Operation phase (Connected load):	4,273 kW
	During Operation phase (Demand load):	3,402 kW
	Transformer:	-
	DG set as Power back-up during operation phase:	Total 6 Nos. of DG Set having different capacities Commercial (Building 2) 3 No. x 1,010 kVA, Redevelopment (Building 1 & 1A) 2 No. x 100 kVA, Reservation Secondary School (Building 3) 1 No x 30 kVA total capacity 3260 kVA
	Fuel used:	As per requirement
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

1. Use of energy efficient, BEE labeled electrical fixtures. Use of T5 tubes having 2.5 to 3 times life over conventional tubes and hence rate of disposal of tubes will be reduced drastically
2. Energy efficient fluorescent tube lights & Light Emitting Diode (LED) lamps which give approx. 30% more light output for the same watts consumed and therefore require less nos. of fixtures.
3. LED lighting is complimentary in Residential as in day time, it is used effectively in night time in Common areas like staircase, area lighting.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Use of T5 tubes having 2.5 to 3 times life over conventional tubes and hence rate of disposal of tubes will be reduced drastically.	8%

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.10.21 Lakh
	O & M cost:	Rs.1.2 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	pH, Colour, odour, turbidity, Total hardness	1.80
2	Site Sanitation	Disinfection	2.50
3	Disinfection	Disinfection	1.70
4	Health Check up	Monthly	10.20
5	Safety Personal Protective Equipments	Safety jacket, Safety shoes, Helmet, Belt	3.20
6	Traffic Management	Construction & Maintenance of roads	1.50
7	Safety nets	-	1.70
8	Tyre cleaning and vehicle maintenance	Vehicle washing	0.80
9	Sit fencing and Noise barriers	plantation of trees	2.70
10	Environmental Monitoring	Air, Water, Soil and Noise monitoring	2.40

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	3 Nos. of STP having total capacity 340 KLD	68	4
2	Solid Waste Composting	Composting	13	1

3	Rain Water Harvesting and Storm water management (Recharge pits & Tanks)	Channelizing and maintenance of rain water harvesting	18	1.5
4	Landscape/Gardening	RG Area	9.4	1
5	Fire Fighting Management	Fire Extinguisher	28	2
6	Energy Conservation	LED	-	-
7	Environment Monitoring	Air, Water, Soil and Noise Monitoring	15	2.4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 Nos. of junction main road having width 30 m
Parking details:	**Number and area of basement:**	3 Nos. of basement having area 22,101 sq.mt.
	Number and area of podia:	-
	Total Parking area:	11,536 sq.mt.
	Area per car:	31 sq.mt.
	Area per car:	31 sq.mt.
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	370
	Public Transport:	Not Applicable
	Width of all Internal roads (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	B Category
	Court cases pending if any	Not Applicable
	Other Relevant Informations	We have received the Environment Clearance from Govt. of Maharashtra having file No. SEAC-2013/C.R.502/TC-1 dated 01.12.2014 We have applied for amendment in the Environment clearance. There are minor reduction in construction and FSI area due to change in Master plan
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for Amendment in Environmental Clearance on total plot area of 7810 Sq. mtrs, total BUA of 66261 Sq. mtrs. and FSI area of 28795.22 Sq. mtrs. PP proposes to construct 1 sale building , 2 number of Redevelopment Rehab building & Secondary School Building having maximum height of 86.40 mtrs.

PP has obtained earlier EC dated 01.12.2014. PP has applied for amendment in earlier EC

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2. PP informed that no construction is started on site. PP informed that STP is open to sky and no discharge into sewer line.

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

2) PP 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.
3) PP to submit revise HRC NOC
4) PP to submit storm water drain layout with all catchment area surrounding the building.
5) PP to revise traffic analysis report and submit as per standards of Indian Road Congress.
6) PP to submit Disaster Management Plan.
7) PP to submit traffic analysis report, base document of Mumbai mobility report-2034, E-Moses Road.

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for Proposed Residential Buildings Project "Nirmal Nagari" at Plot bearing S. No. 5 H. No. 2, 3, 15 & 16 of village Dawle, Tal & Dist. Thane by Unique Buildcorn Builders and Developers

Is a Violation Case: No

1.Name of Project	Unique Buildcorn Builders and Developers
2.Type of institution	Private
3.Name of Project Proponent	Mr. Hirji B. Mange, Unique Buildcorn Builders and Developers
4.Name of Consultant	Dr. D. A. Patil, Mahabal Enviro Engg. Pvt. L td.
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing S. No. 5 H. No. 2, 3, 15 & 16 at village Dawle, Tal & Dist. Thane.
9.Taluka	Thane
10.Village	Dawle
11.Area of the project	Thane Municipal Corporation (TMC)
12.IOD/IOA/Concession/Plan Approval Number	Obtained Commencement Certificate from TMC vide No. V.P. S11/0044/12 TMC/TD-DP/TPS /1568/15 dated: 27.11.2015
	IOD/IOA/Concession/Plan Approval Number: Obtained Commencement Certificate from TMC vide No. V.P. S11/0044/12 TMC/TD-DP/TPS /1568/15 dated: 27.11.2015
	Approved Built-up Area: 20595.52
13.Note on the initiated work (If applicable)	Total Constructed Area as on today is 6,364.43 m2 as per approval of TMC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Obtained Commencement Certificate from TMC vide No. V.P. S11/0044/12 TMC/TD-DP/TPS /1568/15 dated: 27.11.2015
15.Total Plot Area (sq. m.)	15,790.00 m2
16.Deductions	6,041.22 m2
17.Net Plot area	9,748.78 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20,595.52 m2
	b) Non FSI area (sq. m.): 12,698.65 m2
	c) Total BUA area (sq. m.): 33,294.17 m2
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	3,022.60 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.14 %
21.Estimated cost of the project	490000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Bldg. A1	Gr. (pt) + St. (pt)+ 1st to 19th Floors	59.90 m
2	Bldg. A2	Gr. (pt) + St. (pt)+ 1st to 19th Floors	59.90 m
3	Bldg. B1	St. + 1st to 7th Floors	24.65 m

4	Bldg. B2	St. + 1st to 7th Floors	24.65 m
5	Bldg. C1	St + 1st to 7th Floors	23.35 m
6	Bldg. C2	St + 1st to 7th Floors	23.35 m
7	Bldg. C3	St + 1st to 7th Floors	23.35 m
8	Bldg. C4	St + 1st to 7th Floors	23.35 m
9	Bldg. C5	St + 1st to 7th Floors	23.35 m
10	Bldg. D1	Gr (pt) + St (pt)+ 1st to 7th F	23.35 m
11	Bldg. D2	Gr (pt) + St (pt)+ 1st to 7th F	23.35 m
12	Bldg. D3	Gr (pt) + St (pt)+ 1st to 7th F	23.35 m
13	Bldg. D4	Gr (pt) + St (pt)+ 1st to 7th F	23.35 m
14	Bldg. E1	St + 1st to 7th Floors	23.35 m
15	Bldg. E2	St + 1st to 7th Floors	23.35 m
16	Club House	Gr. + 1st Floor	7.00 m

23.Number of tenants and shops	Total Tenements: 538 Nos. Shops: 44 Nos.
24.Number of expected residents / users	2,832 Nos.
25.Tenant density per hectare	340.72/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)	30 m. wide DP Road and 12 m wide internal road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9.00 m
29.Existing structure (s) if any	Nil
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	TMC
	Fresh water (CMD):	244 KLD
	Recycled water - Flushing (CMD):	126 KLD
	Recycled water - Gardening (CMD):	13 KLD
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	370 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	203 KLD
Wet season:	**Source of water**	TMC+RWH
	Fresh water (CMD):	172 KLD +72 KLD RWH
	Recycled water - Flushing (CMD):	126 KLD
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	370 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	226 KLD
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5-6 m
	Size and no of RWH tank(s) and Quantity:	4 Nos. of RWH tank with Total RWH tank capacity: 150 m3
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	35 lakh
	Budgetary allocation (O & M cost) :	2 Lakh/year
	Details of UGT tanks if any :	Underground
35.Storm water drainage	**Natural water drainage pattern:**	Towards North side
	Quantity of storm water:	1742.22 m3/hr
	Size of SWD:	450 x 600 mm channel
Sewage and Waste water	**Sewage generation in KLD:**	342 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	350 KLD
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	80 Lakh
	Budgetary allocation (O & M cost):	18 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	896 m3
	Disposal of the construction waste debris:	The construction debris will be utilized at site for Road Paving and plinth filling
Waste generation in the operation Phase:	**Dry waste:**	549 kg/d
	Wet waste:	824 kg/d
	Hazardous waste:	Household E-waste generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	3 m3
	Others if any:	Household E-waste

Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be segregated & disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge will be used as manure for gardening
	Others if any:	The household E-waste shall be handed over to e-waste management vendor authorized by MPCB.
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	45 m2
	Area for machinery:	32 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	40 Lakh
	O & M cost:	15 Lakh/Year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	2,543.04 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	170
	List of proposed native trees :	170
	Timeline for completion of plantation :	1 Year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadiracta indica	Neem	25	Large tree, good for roadside plant
2	Alstonia scholaris	Satwin	24	Shady Tree, white fragrant flowers
3	Saraca asoka	Sita Ashok	23	Shady tree with red-yellow flowers.
4	Mimusops elengi	Bakul	24	Shady tree, small white fragrant flowers
5	Butea monosperma	Palas	24	Medium sized deciduous tree. Beautiful orange
6	Pongamia pinnata	Karanj	26	Shady tree
7	Anthocephallus cadamba	Kadamb	24	Shady, large tree, ball shaped flowers.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 kVA
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	2.0 MW
	During Operation phase (Demand load):	1.5 MW
	Transformer:	NA
	DG set as Power back-up during operation phase:	650 kVA (2 x 200 kVA,1 x 250kVA)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

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

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy saving as compared to Conventional Base Case	>20 %
2	Total Energy saving from renewable source (Solar Hot Water) as per Efficient proposed case	>16%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	60 Lakh
	O & M cost:	3 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	2.5
2	Site sanitation (Toilets)	-	2

3	Environmental Monitoring	-	3
4	Potable Water Supply to Labour Camp	-	3.5
5	Health check-up & first aid	-	3
6	Safety Personal Protective Equipment	-	4
7	Traffic Management	-	2.5
8	Safety nets	-	5.5
9	Tyre cleaning and Vehicle maintenance	-	1.5
10	Solid Waste Management & Site maintenance activity	-	2.5
11	Safety - Training to Workers	-	5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	Continuous O & M	80	80
2	Solar Hot Water	Weekly	60	35
3	Rain Water Harvesting	During rainy season (Cleaning of RWH tanks and Filtration chamber)	35	2
4	Solid waste Composting plant	Continuous O & M	40	15
5	Landscape	Daily	25	4
6	Environmental Monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2 Nos.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	4049 m2
	Area per car:	29.34 m2
	Area per car:	29.34 m2
	Number of 2-Wheelers as approved by competent authority:	538 Nos
	Number of 4-Wheelers as approved by competent authority:	138 Nos
	Public Transport:	NA
	Width of all Internal roads (m):	12 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Our project site is 12 km away from the boundary of Sanjay Gandhi national park (SGNP), and as per the Eco Sensitive Zone (ESZ) notification of Sanjay Gandhi National Park (SGNP), Borivali vide no. S. O. 3645 (E) dated 05.12.2016, our project site is outside of ESZ area i.e. (100 m); hence clearance from National Board for Wildlife (NBWL) is not applicable for our project.
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

pplication for prior Environment Clearance for proposed residential building project “Nirmal Nagari” at plot bearing S.No. 5 H No. 2,3,15 & 16 of village Dawale, Tal & Dist. Thane by M/s Unique Buildcorn Builders and Developers .

PP submitted their application is for prior Environmental Clearance on total plot area of 15790.00 Sq. mtrs, total BUA of 33294.17 Sq. mtrs. and FSI area of 20595.52 Sq. mtrs. PP proposes to construct 15 number of Residential buildings having maximum height of 59.19 mtrs. & Club house.

PP informed that construction of 15,617.22 sq.Mtrs.has completed as per approval received from Thane Municipal Corrporation.PP also informed that plot potential was initially below 20,000 Sq.Mtrs,but due to amalgamtion of another plot project comes under purview of EIA notification,2006.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2.

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP 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) PP to submit architects certificate for construction done on site.
3) PP to revise and submit CS.
4) PP to submit affidavit about construction done on site.
5) PP to submit details of TMT generation.
6) PP informed that STP of 200 kld is already constructed. PP to submit STP monthly analysis report.
7) PP to to revise and submit the Wind, Shadow, Thermal analysis report.

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for SAI TIRTH (SRA RESIDENTIAL & COMMERCIAL PROJECT) at plot bearing CST NO 983 (P) ,1025 (P) & 1026 (P) OF TP NO 1, THANE (E) by M/S GOKULDHAM CO-OP.HSG SOC.LTD

Is a Violation Case: No

1.Name of Project	SAI TIRTH (SRA RESIDENTIAL & COMMERCIAL PROJECT)
2.Type of institution	Private
3.Name of Project Proponent	Mr Dharam Kataria , GOKULDHAM CO-OP.HSG SOC.LTD, Shop no 22, Sai Tirth Tower Siddharth NaGAR , Kopari colony, Thane East
4.Name of Consultant	Mr. H.K. Desai Enviro Analysts & Engineers Pvt. Ltd.,B-1003, Enviro House Western Edge II, Behind Metro Mall Western Express Highway Borivali (E), Mumbai-400066
5.Type of project	SRA Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	on plot bearing CST NO 983 (P) ,1025 (P) & 1026 (P) OF TP NO 1, THANE (E)
9.Taluka	Thane
10.Village	Thane
11.Area of the project	TMC (Thane Municipal Corporation)
12.IOD/IOA/Concession/Plan Approval Number	recieved by TMC
	IOD/IOA/Concession/Plan Approval Number: revised commmnecment certificated reiceved from TMCup to 20 floors (for F bldg) dated 24-3-2009
	Approved Built-up Area: 36846.10
13.Note on the initiated work (If applicable)	100% of Rehab and 75 % sale construction work completed. OC of 100 % Rehab obtained and in Sale OC of 75 % work completed is obtained and remaining 25% OC is pending for Environmental Dept NOC. The remaining construction area is 3078 Sqmt .
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI DATED ON 01.04.2002
15.Total Plot Area (sq. m.)	9363.27 Sq.m.
16.Deductions	1634.27 sq.m.
17.Net Plot area	7729.00 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 23406.10 Sq.m.
	b) Non FSI area (sq. m.): 13440 Sq.m.
	c) Total BUA area (sq. m.): 36846.10
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	3000 sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	32 %
21.Estimated cost of the project	631400000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Bldg.A	Ground + 8	24.00
2	Rehab Bldg.B	Ground + 7	21.94
3	Rehab Bldg.C	Ground + 8	24.0

4	Rehab Bldg.D	Ground + 8	24.0
5	Rehab Bldg.E	Ground + 4	12.80
6	Sale Wing F	Ground + 20	60.0

23.Number of tenants and shops	Building No of Flats Shops Offices Rehab 437 16 - Sale 146 27 9 Balwadi 1 Society Office 4
24.Number of expected residents / users	Sale: 838 ,No's Rehab:2275 No's , Total: 3113 No's.
25.Tenant density per hectare	623 Nos. / Hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 Mtr Wide DP Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6.00 m
29.Existing structure (s) if any	Work has been completed for the project Bldg A, B, C, D, E & F (100 %). Occupancy Certificate obtained for Bldg A, B, C, D, and E: 100 % & Bldg F (sale): up to 15 floors. Occupancy for Bldg F (from 16 to 20 floors) is held for NOC from Environmental Dept
30.Details of the demolition with disposal (If applicable)	417 slums were there on the plot before construction. The slums were demolished and the debris was utilized within the layout for land filling purpose as per the directions of Local Planning Authority.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	TMC/Recyled water
	Fresh water (CMD):	266
	Recycled water - Flushing (CMD):	136
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	411
	Fire fighting - Underground water tank(CMD):	sale bldg. =100 cum
	Fire fighting - Overhead water tank(CMD):	Rehab bldg. =5 cum, Sale Bldg. =25 cum
	Excess treated water	169 KLD
Wet season:	**Source of water**	TMC/Recyled water/RWH Tank
	Fresh water (CMD):	266
	Recycled water - Flushing (CMD):	136
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	402
	Fire fighting - Underground water tank(CMD):	sale bldg. = 100 cum
	Fire fighting - Overhead water tank(CMD):	Rehab bldg. =5 cum, Sale Bldg. =25 cum
	Excess treated water	178 KLD
Details of Swimming pool (If any)	nil	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.5 to 4 mts below ground
	Size and no of RWH tank(s) and Quantity:	Rehab = 71 cum, Sale = 137 cum
	Location of the RWH tank(s):	at Ground level
	Quantity of recharge pits:	NIL
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs 10 Lakhs
	Budgetary allocation (O & M cost) :	Rs 0.5 Lakhs
	Details of UGT tanks if any :	Particulars Rehab (Cum) Sale (Cum) Domestic Water Tank 200 70 Flushing Water Tank 105 45 Fire Water Tank UG = - OH=05 UG = 100 OH=25 Rain Water Harvesting Tank 36 68
35.Storm water drainage	**Natural water drainage pattern:**	The natural drainage pattern is from North to South & East to West
	Quantity of storm water:	Total actual discharge = 0.141 cum/sec (based on 4 no. of outlets 0.04) Total design discharge = 0.15 cum/sec
	Size of SWD:	B =0.45m, D =0.30 m
Sewage and Waste water	**Sewage generation in KLD:**	Rehab = 259 KLD, Sale = 90 KLD, Total = 349 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	Rehab = 311KLD, Sale = 108 KLD, Total = 419 KLD
	Location & area of the STP:	Underground Ground Level
	Budgetary allocation (Capital cost):	Rs. 11.0 Lakhs
	Budgetary allocation (O & M cost):	Rs. 2.0 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris has been disposed off by covered trucks to the authorized sites with the permission of Local Planning Authority.
	Disposal of the construction waste debris:	Debris will be used for backfilling and counterweight of raft, road works, etc. Brickbats will be used for waterproofing. Reinforcement will be sent for reuse Nominal surplus construction debris shall be disposed of by covered trucks to the authorized sites with the permission of local planning authority.
Waste generation in the operation Phase:	**Dry waste:**	Rehab =453 Kg/Day, Sale=165 Kg/Day,Total=618 Kg/Day
	Wet waste:	Rehab =662Kg/Day, Sale=227Kg/Day,Total=889 Kg/Day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	18 Kg/Day
	Others if any:	Nil

Mode of Disposal of waste:	**Dry waste:**	handed over to authorised recylers
	Wet waste:	Will be processed in the OWC & manure so obtained will be used for landscaping.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as a manure
	Others if any:	NA
Area requirement:	**Location(s):**	at ground level
	Area for the storage of waste & other material:	58 sq.m.
	Area for machinery:	14 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 20.0Lakhs
	O & M cost:	Rs 1.00 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1780 sq.m.
	No of trees to be cut :	NIL
	Number of trees to be planted :	90Nos.
	List of proposed native trees :	as below
	Timeline for completion of plantation :	at the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bauhinea purpurea	Kanchan	15	Every part of the plant is medicinal ,Drought tolerant species.
2	Azadirchata indica	Neem Tree	15	Medicinal value, To control soil erosion. To improve soil erosion
3	Cassia fistula	Golden Shower tree	15	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
4	Delonix regina	Gulmohar tree	15	flowering
5	Plumeria alba	Chapha	10	flowering
6	Saraca asoca	Ashoka	20	Medicinal value, Religious plant.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	2689Kw
	During Operation phase (Demand load):	1620KW
	Transformer:	NA
	DG set as Power back-up during operation phase:	1x320 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. common area lighting on solar
2. T5 lights
3. LED lights
4. VFD & regenerative type of lifts
5. Solar Hot water system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	as above	14.8%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 95 Lakhs
	O & M cost:	Rs. 5 Lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environemnt	Dust Suppression	2.50
2	Land Environment	site sanitation	2.0
3	Environmental Monitoring	For Air, Noise, Water Analysis	15.0
4	EHS	disinfection	1.75
5	EHS	Health Check Up	3.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	water environment	Rain Water Harvesting	10.0	5.0
2	land environment	solid waste managment	20.0	1.0
3	water environment	STP	11.0	2.0
4	Energy Saving	Solar Energy System	95.0	5.0
5	Land Environment	Landscape	18.00	4.0

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:	18.30 Mtr Wide DP Road
Parking details:	**Number and area of basement:**	Lower ground 347 Sqmt
	Number and area of podia:	1 podium (1176 Sqmt)
	Total Parking area:	34885 Sq.m.
	Area per car:	32.00 sq.m
	Area per car:	32.00 sq.m
	Number of 2-Wheelers as approved by competent authority:	nil
	Number of 4-Wheelers as approved by competent authority:	150Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 M
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park = 3.50km
	Category as per schedule of EIA Notification sheet	Schedule 8a, Category B
	Court cases pending if any	Nil
	Other Relevant Informations	the project was considered in 26 th SEAC-2 mtg & 33rd SEAC-2 Mtg. As per 33rd SEAC-2 MOM the proposal is referred for action on alleged violation as per the OMs of MoEF dated 12/12/2012 & 27/6/2013 and order of NGT given inappeal No. 72 of 2013 and 73 of 2013 dated 26/09/2013 to SEIAA/ Environment Department and shall be considered further after the above observations are addressed and submitted for reconsideration. All the process for violation has been done & judgement copy received by Chief Justice Magistrate, Thane. So,the proposal to be reconsidered as per the 33rd SEAC-2 MOM.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for prior Environmental Clearance on total plot area of 9363.27 Sq. mtrs, total BUA of 36846.10 Sq. mtrs. and FSI area of 23406.10 Sq. mtrs. PP proposes to construct 6 number of Residential buildings (5 Rehab building &1 Sale building) having maximum height of 236.95 mtrs.

The case was earlier considered in the 26th and 33rd meeting of SEAC – II

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2.

pp agreed to submit undertaking regarding details of construction undertaken till date. PP also agreed to increase the capacity of STP to take load of both Rehab and sale buildings or provide separate STP to Rehab building and will submit agreement for the same.

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to submit revise Fire Tender Movement layout plan for all the buildings.

FINAL RECOMMENDATION

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

State Expert Appraisal Committee (SEAC-2)

SEAC Meeting number: 57 (DAY 2) **Meeting Date** March 17, 2018

Subject: Environment Clearance for enviromental clearence for " Anshul Heights" Mahavir Nagar Anshul Plaza CHS Ltd- proposed residential building

Is a Violation Case: No

1.Name of Project	" Anshul Heights" Mahavir Nagar Anshul Plaza CHS Ltd- proposed residential building
2.Type of institution	Private
3.Name of Project Proponent	M/s Vidisha Real Estate Developrs Pvt Ltd. Contact- 9820066136 Office Address: 2nd Floor Vidisha Building, Junction Of S.V Road & Natakwalla Lane,Borivali (W). Mumbai 400092
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd. Contact- 91-22 2854 1647 Mr. H. K Desai B-1003,Enviro House, 10th floor, Western Edge -II Western Express Highway, Borivali (E), Mumbai- 400 066 hkdesai5@gmail.com,; info@eaepl.com
5.Type of project	Proposed housing project (Mhada layout)
6.New project/expansion in existing project/modernization/diversification in existing project	new
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	CTS NO. 1C/1/1(pt) of Village Kandivali At Mahavir Nagar Kandivali West, Mumbai 400067.
9.Taluka	Kandivali
10.Village	Mahavir Nagar
11.Area of the project	MCGM (Municipal Corporation of Greater Mumbai)
12.IOD/IOA/Concession/Plan Approval Number	IOD received dated 15.05.2017
	IOD/IOA/Concession/Plan Approval Number: IOD - CHE/A-4665/BP (WS)/AR
	Approved Built-up Area: 23354
13.Note on the initiated work (If applicable)	19670.83 sqm has been constructed as per plan approved dated 1.10.2015 1 building with configuration St + 2 P with Wing A 19 + 20 (pt) &Wing B 19 + 20 (pt)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD received dated 15.05.2017
15.Total Plot Area (sq. m.)	3442.00
16.Deductions	--
17.Net Plot area	3442.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 14550.19
	b) Non FSI area (sq. m.): 8804.1
	c) Total BUA area (sq. m.): 23354.29
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	3081.90
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	89%
21.Estimated cost of the project	1600000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	St + 2 P with Wing A	19 + 20 (pt)	69.80 m
2	St + 2 P with Wing B	19 + 20 (pt)	69.80 m
3	St + 2 P with Wing C	9 + 10 (pt)	43.20 m

23.Number of tenants and shops	189 nos
24.Number of expected residents / users	945 nos
25.Tenant density per hectare	549 tenants/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 Mt wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12.00 m
29.Existing structure (s) if any	1 building with configuration St + 2 P with Wing A 19 + 20 (pt) & Wing B 19 + 20 (pt)
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM / treated water from STP
	Fresh water (CMD):	85 KLD
	Recycled water - Flushing (CMD):	42 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	127 KLD
	Fire fighting - Underground water tank(CMD):	250 KL
	Fire fighting - Overhead water tank(CMD):	90 KL
	Excess treated water	64 KLD

Wet season:	**Source of water**	MCGM/RWH/ treated water from STP
	Fresh water (CMD):	85 KLD
	Recycled water - Flushing (CMD):	42 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	127 KLD
	Fire fighting - Underground water tank(CMD):	250 KL
	Fire fighting - Overhead water tank(CMD):	90 KL
	Excess treated water	64 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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	7 m bgl
	Size and no of RWH tank(s) and Quantity:	66 cum
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs 3 Lakhs
	Budgetary allocation (O & M cost) :	Rs 0.2 Lakhs /Annum
	Details of UGT tanks if any :	Domestic Water Tank 85 KL Flushing Water Tank 42 KL Fire Water Tank 250 KL Rain Water Harvesting Tank 60 KL Location of tank Ground

35.Storm water drainage	**Natural water drainage pattern:**	S to N
	Quantity of storm water:	0.016 cum/sec
	Size of SWD:	0.40 m x 0.30 m
Sewage and Waste water	**Sewage generation in KLD:**	118 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	130 KLD
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	Rs 13Lakhs
	Budgetary allocation (O & M cost):	Rs 2 lakhs /annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Recyclable waste will be generated like empty cement bags & cans, scrap metal etc. Debris & construction waste shall be generated.
	Disposal of the construction waste debris:	Debris will be disposed off as per norms. Scrap material will be sold to recyclers.
Waste generation in the operation Phase:	**Dry waste:**	189 kg/day
	Wet waste:	284 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	7 kg/day
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	To be hand over to Local Recyclers for recycling
	Wet waste:	To be processed in the OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	To be used as a manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	71 sqm
	Area for machinery:	23 sq.mts
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 7 Lakhs
	O & M cost:	Rs 1 lakhs /annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	-
	No of trees to be cut :	26 nos
	Number of trees to be planted :	52 Nos
	List of proposed native trees :	same as below
	Timeline for completion of plantation :	by the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Supari	Areca catechu	10	shadey
2	Sitafal	Annona reticulata	5	fruit bearing
3	Fanas	Artocarpus heterophyllus	7	fruit bearing

4	Coconut	Cocos nucifera	4	fruit bearing
5	Mango	Mangifera indica	5	fruit bearing
6	Sevaga	Moringa oleifera	8	shadey
7	wad	Ficus benghalensis	7	shadey
8	Badam	Prunus dulcis	6	shadey
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Reliance
	During Construction Phase: (Demand Load)	80 kw
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	1013 Kw
	During Operation phase (Demand load):	619 kW
	Transformer:	NA
	DG set as Power back-up during operation phase:	250 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Road & Landscaping-60% on solar
Lobby & staircase lights 60% on Solar
Lifts - with VFD & Regenerative Type
Solar hot water system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall Saving for the Project	17.7%
2	Total Units saved based on Unit Consumption - (Kw)	754
3	Energy Saving from Solar	277
4	Energy Saving from Solar in %	6.5%

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. 21 lakhs
	O & M cost:	Rs.1 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 pollution	Water for Dust Suppression	5
2	health safety	Site Sanitation & Safety	15
3	Environment Monitoring	Environmental Monitoring	15
4	health safety	Disinfection	10
5	Good Health Practices	Health Check up	15

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	solid waste Mgmt	OWC	7	1
2	waste water mgmt	STP	13	2
3	solar savings	Energy	21	1
4	RWH system	RWH system	3	0.2
5	green belt area	Landscaping	11	2

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:	18.30 Mt wide road

Parking details:	**Number and area of basement:**	nil
	Number and area of podia:	2 nos (4870 sqm).
	Total Parking area:	.
	Area per car:	• Stilt – 24 sqm, • Podium – 33 sqm
	Area per car:	• Stilt – 24 sqm, • Podium – 33 sqm
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	153 nos
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m wide
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	14-06-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Not Available.

Brief information of the project by SEAC

PP submitted their application is for prior Environmental Clearance on total plot area of 3442.00 Sq. mtrs, total BUA of 23354.29 Sq. mtrs. and FSI area of 14550.19 Sq. mtrs. PP proposes to construct 3 number of Residential buildings having maximum height of 69.80 mtrs.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8 (a) B2.

PP informed that construction of 19670.83 Sq.Mtrs is completed on sites. And now increase in plot potential is due to increase in FSI of the plots. It was also informed that environmental facilities will be provided to existing construction also. Green zone reservation has also been excluded by the PP.

DECISION OF SEAC

After deliberation, committee decided to defer the proposal for compliance of above points.

Specific Conditions by SEAC:

1) PP to submit architects certificate for construction done on site.
2) PP to submit lease agreement between MHADA and Society.
3) PP to submit permission from MHADA to society for hand over to the plot to other developer's i.e. third party for development.
4) PP to revise CS giving correct details of Configuration, construction area, tenements, population and parking.
5) If applicable, PP to leave clear cut side margin of 6 m from the boundary of the plot and open space and non-paved RG area should be on ground as per the orders of Hon'ble Supreme Court (Civil Appeal No. 11150 of 2013 and SLP (Civil) No. 33402/2012) dated 17th December 2013.

FINAL RECOMMENDATION

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