

Agenda of 98th Day-1 SEAC-2 meeting held on 3rd -4th May, 2019

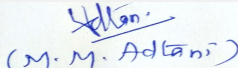
SEAC Meeting number: 98th Meeting Date May 3, 2019

Subject: Environment Clearance for Proposed residential cum commercial development at Dadar (W), Mumbai

Is a Violation Case: No

1.Name of Project	Proposed residential cum commercial development at Dadar (W), Mumbai
2.Type of institution	Private
3.Name of Project Proponent	M/s. Colocolor Pvt. Ltd.
4.Name of Consultant	EIA Coordinator: Saurabh Jaiswar (Pollution & Ecological Control Services)
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.484, TPS IV, Mahim Div., M. C. Jawle Marg & Bhavani Shankar Marg, Dadar (W), Mumbai 400 028
9.Taluka	Mumbai
10.Village	Mumbai
Correspondence Name:	Mr. Deepak Devji Patel, Director of M/s. Colocolor Pvt. Ltd
Room Number:	NA
Floor:	1st floor
Building Name:	Dadar Departmental store
Road/Street Name:	M.C. Jawle Marg
Locality:	Dadar (West)
City:	Mumbai 400028
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOD
	IOD/IOA/Concession/Plan Approval Number: Building 1: CHE/CTY/1250/G/N/337(NEW) Building 2: CHE/CTY/1251/G/N/337(NEW)
	Approved Built-up Area: 12710.96
13.Note on the initiated work (If applicable)	no work is started yet
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Building 1: CHE/CTY/1250/G/N/337(NEW) Building 2: CHE/CTY/1251/G/N/337(NEW)
15.Total Plot Area (sq. m.)	3471.59 m2
16.Deductions	118.15 m2
17.Net Plot area	3353.44 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 16280.62
	b) Non FSI area (sq. m.): 17482.34
	c) Total BUA area (sq. m.): 33762.96
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 12693.84
	Approved Non FSI area (sq. m.): 10985.23
	Date of Approval: 19-08-2017
19.Total ground coverage (m2)	1605.81 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	48%
21.Estimated cost of the project	844074000

22.Number of buildings & its configuration

 Mr. Surykant Nikam (Secretary SEAC-II)	SEAC Meeting No: 98th Meeting Date: May 3, 2019	Page 1 of 94	 Shri M.M.Adtani (Chairman SEAC-II)
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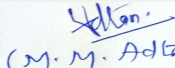
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	Building 1 (rehab)	1 Service Basements+ Ground Floor+ 1st to 21st Residential floors +Terrace	68.85	
2	Building 2 (sale)	1 Service Basements+ Ground Floor+ 1st to 9th Residential floors+ Service Floor + 10th to 45th Residential floors +Terrace	180.15	
23.Number of tenants and shops		Building 1 (rehab): Flats - 56, shops- 14 Building 2 (sale): Flats- 145, shops- 13		
24.Number of expected residents / users		1162(Residents: 953, Commercial : 103, Visitors: 106)		
25.Tenant density per hectare		599		
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))		24.40m Bhawani Shankar Marg		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation		minimum of 9m		
29.Existing structure (s) if any		There are no structures on the plot		
30.Details of the demolition with disposal (If applicable)		The existing structures on site has been demolished and the Demolition waste has been disposed of as per the "Construction Demolition Waste (Management &. Disposal) Rules 2016		
31.Production Details				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable	Not applicable	Not applicable	Not applicable
32.Total Water Requirement				

Dry season:	Source of water	MCGM								
	Fresh water (CMD):	88								
	Recycled water - Flushing (CMD):	47								
	Recycled water - Gardening (CMD):	3								
	Swimming pool make up (Cum):	NA								
	Total Water Requirement (CMD) :	138								
	Fire fighting - Underground water tank(CMD):	Fire tank 1 : 197m3, Fire tank 2: 202 m3								
	Fire fighting - Overhead water tank(CMD):	-								
	Excess treated water	71								
Wet season:	Source of water	MCGM								
	Fresh water (CMD):	88								
	Recycled water - Flushing (CMD):	47								
	Recycled water - Gardening (CMD):	0								
	Swimming pool make up (Cum):	NA								
	Total Water Requirement (CMD) :	135								
	Fire fighting - Underground water tank(CMD):	Fire tank 1 : 197m3, Fire tank 2: 202 m3								
	Fire fighting - Overhead water tank(CMD):	-								
	Excess treated water	74								
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	0	88	88	0	13.2	13.2	0	74.8	74.8	


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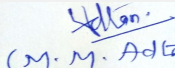

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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	5-6m
	Size and no of RWH tank(s) and Quantity:	1 RWH tank : 25 m3
	Location of the RWH tank(s):	service basement 1
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	4.2 Lakhs
	Budgetary allocation (O & M cost) :	1 Lakhs
	Details of UGT tanks if any :	Service Basement: Fire tank 1- 197 m3, Fire tank 2- 202 m3, Domestic tank- 75 m3, Flushing tank- 40 m3, RWH tank- 25 m3
35.Storm water drainage	Natural water drainage pattern:	The storm water collected through storm water drains of adequate capacity will be discharged into Municipal SWD
	Quantity of storm water:	0.0642 m3/sec
	Size of SWD:	internal discharge points of 450mmx 300 mm with slope 1:300
Sewage and Waste water	Sewage generation in KLD:	122 KLD
	STP technology:	MBBR (Moving Bed Bio-film Reactor)
	Capacity of STP (CMD):	1 no. of STP of capacity 125 m3/day
	Location & area of the STP:	Service Basement 1
	Budgetary allocation (Capital cost):	35 Lakhs
	Budgetary allocation (O & M cost):	3.6 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	50 kg/day Municipal solid
	Disposal of the construction waste debris:	scrap material will be disposed to Authorized Vendor
Waste generation in the operation Phase:	Dry waste:	185.28 kg/day
	Wet waste:	330.22 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable


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Mode of Disposal of waste:	Dry waste:	Dry garbage will be further segregated into recyclable and non-recyclable and will be handed over to the authorized recycler
	Wet waste:	The bio-degradable waste will be converted to compost by using In-vessel composting units as curing units
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	Location(s):	Service basement
	Area for the storage of waste & other material:	Approx. 25 m2 including area for machinery
	Area for machinery:	Approx. 25 m2 including area for the storage of waste and other material
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	10 lakhs
	O & M cost:	1.5 lakhs

37. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	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

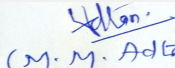
40. Details of Fuel to be used

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


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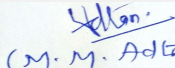

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41.Source of Fuel		Not applicable		
42.Mode of Transportation of fuel to site		Not applicable		
43.Green Belt Development	Total RG area :	400.05 m2		
	No of trees to be cut :	5		
	Number of trees to be planted :	57		
	List of proposed native trees :	13		
	Timeline for completion of plantation :	NA		
44.Number and list of trees species to be planted in the ground				
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ficus Religiosa	Pimpal	1	Pimpal is large, deciduous, fast growing and glabrous tree
2	Manikara zapota	Chickoo	2	Fruit bearing tree
3	Michelia champaca	Champa	4	Evergreen and bird attracting tree
4	Mimusopes elengi	Bakul	4	Evergreen tree, timber yielding and medicinal plants
5	Ficus benjamina	Weeping fig	8	Evergreen and bird attracting tree
6	Cassia fistula	Golden shower	6	Drought tolerant and medicinal plant
7	Butea monosperma	Flame tree	8	used in pesticide and dye preparation
8	Cassia grandis	Pink shower	4	Drought tolerant and medicinal plant
9	Saraca indica	Sita ashoka	3	evergreen medicinal plant
10	Roystonea regia	Royal palm	4	nitrogen fixer and ornamental plant
11	Syzygium cumini	Jambhul	4	fruit tree and bird attracting tree
12	Neolamarkia cadamba	Kadamb tree	5	tropical fruit tree and bird attracting tree
13	Mangifera indica	Mango tree	4	Evergreen and bird attracting tree
45.Total quantity of plants on ground				
46.Number and list of shrubs and bushes species to be planted in the podium RG:				
Serial Number	Name	C/C Distance	Area m2	
1	NA	NA	NA	
47.Energy				


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Power requirement:	Source of power supply :	BEST
	During Construction Phase: (Demand Load)	330 KW from BEST
	DG set as Power back-up during construction phase	1 DG set of capacity 750 KVA
	During Operation phase (Connected load):	1401.12 KW(Building 1- Rehab) 2251.98 KW(Building 2-Sale)
	During Operation phase (Demand load):	361.12 KW(Building 1- Rehab), 629.26 KW(Building 2-Sale)
	Transformer:	NA
	DG set as Power back-up during operation phase:	1 DG set of capacity 750 KVA
	Fuel used:	Low sulphur High speed Diesel
	Details of high tension line passing through the plot if any:	NO

48. Energy saving by non-conventional method:

Natural shading through elevation features to minimize heat gain and reduce air-conditioning requirement

- Use of low-e glass to reduce power requirement
- Solar lighting in common areas, garden and road
- Solar hot water for residential buildings
- Solar street lights will be proposed

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy saving for Building 1	18.30%
2	Total energy saving for Building 2	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:	62 Lakhs
	O & M cost:	2.3 Lakhs

51. Environmental Management plan Budgetary Allocation

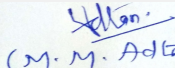
a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust suppression measures and barricading	Erosion control	4.5
2	supply of personal protective equipment	site safety	5


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3	facility of bio-toilets and basins	site sanitation	3
4	Health check-ups on regular intervals	disinfection and health check-up	3
5	air, water and noise monitoring	environmental monitoring	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	STP (Capacity: 125 m3/day)	waste water treatment	35	3.6
2	MSW (Total Biodegradable waste: 319.69 kg/day)	In-vessel composter as curing units of solid waste	10	1.5
3	RWH (1 RWH tank) Capacity: 25 m3/day	RWH tank	4.2	1
4	Landscaping (RG area: 400.05 m2)	maintenance of garden area	4	0.8
5	DMP	Disaster management plan for manmade and natural disaster	191	38.27
6	Solar and Renewable system	-	62	2.3
7	Compliance Monitoring	-	1.5	-

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

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

52.Any Other Information

No Information Available

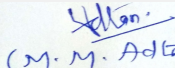
53.Traffic Management

Nos. of the junction to the main road & design of confluence:	1 entry/exit at Bhawani Shankar Marg
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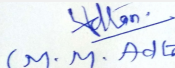

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Parking details:	Number and area of basement:	1 service basement
	Number and area of podia:	2nd to 8th Podium Parking (Total 7): area of Podium 759.39m2
	Total Parking area:	1677.5 m2
	Area per car:	13.75 m2
	Area per car:	13.75 m2
	Number of 2-Wheelers as approved by competent authority:	59
	Number of 4-Wheelers as approved by competent authority:	Building 1 (Rehab)- 24 Building 2 (sale) 214
	Public Transport:	NA
	Width of all Internal roads (m):	6m for 4-wheelers, 9m for CFO, 13m for HMTV and LCV
	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) B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS		
Summarised in brief information of Project as below.		
Brief information of the project by SEAC		


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Representative of PP Mr. Deepak Patel was present during the meeting along with environmental consultant M/s. SGM

PP informed that, the project under consideration is *proposed New Housing project*. PP further stated that, the total plot area of the project is 3471.59 Sq.mt. having total construction area 33762.96 Sq.mt. (FSI - 16280.62 Sq.mt. + NON FSI- 17482.34 Sq.mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Building 1 (rehab)	1 Service Basements+ Ground Floor+ 1st to 21st Residential floors +Terrace	68.85
Building 2 (sale)	1 Service Basements+ Ground Floor+ 1st to 9th Residential floors+ Service Floor + 10th to 45th Residential floors +Terrace	180.15

It is noted that the project earlier considered in 93rd SEAC-2 Meeting held on 26-03-2019 & deferred with observations namely 1) to submit the copy of HRC NoC. 2) to submit the copy of CFO NoC. 3) to explore possibilities to reuse excess treated water. 4) to provide wind barrier at terrace level to reduce wind speed and to achieve comfortable zone. also to take measures for reducing daylight glaze at the upper levels. 5) to provide contiguous RG and not in patches. PP to submit revised plan accordingly. 6) to provide clear 6 mt circulatory drive way. 7) to restudy the parking design & accordingly submit the revised design & calculations.

8) to submit CER prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertake under CER to be got approved from collector/ local body or Environment Department. Accordingly PP submitted the compliance which was taken on record.

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

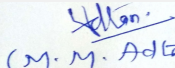
DECISION OF SEAC

record.


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

Specific Conditions by SEAC:

- 1) PP to submit HRC NoC.
- 2) It is noted that the height of the buildings stated in the CS is different than stated in the PPT & CFO NoC. PP to revise the CS with respect to height of building as per CFO NoC & HRC NoC.
- 3) PP to abide the all conditions laid down in CFO NoC.
- 4) PP to upload the comparative table (earlier proposed & after providing measures/barriers) regarding wind speed calculations as mentioned in the compliance point no 4.
- 5) The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.
- 6) PP to submit CER of 1.5 % prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertake under CER to be get approved from collector/ local body or Environment Department.

FINAL RECOMMENDATION

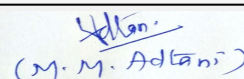
SEAC-II have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions



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Agenda of 98th Day-1 SEAC-2 meeting held on 3rd -4th May, 2019

SEAC Meeting number: 98th Meeting Date May 3, 2019

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

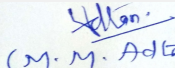
Is a Violation Case: No

1.Name of Project	Proposed Residential and Commercial project at Village Sarang & Vehale, Taluka Bhiwandi, District Thane by Xrbia Warai Developers Pvt. Ltd. & 4 others (Sujitkumar Jitpratap Singh, Homeway Landmark LLP, Ashish Vijay Bhansali, Vijay Motilal Bhansali)
2.Type of institution	Private
3.Name of Project Proponent	Xrbia Warai Developers Pvt. Ltd. & 4 Others (Sujitkumar Jitpratap Singh, Homeway Landmark LLP, Ashish Vijay Bhansali, Vijay Motilal Bhansali)
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., F-7, Road No. 21, Wagle Estate, Thane (West)-400604
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Land bearing Gat no. 12/1, 12/3/a, 12/3/b, 13/4, 13/13, 14/3, 13/3,13/12, 14/5 of Village Vehale and 52, 53/1, 53/8, 53/5, 53/6, 54/1, 49/5, 49/12, 49/6, 53/4, 53/2, 49/10, 53/3, 53/7, 53/9 of Village Sarang, Taluka Bhiwandi, District Thane.
9.Taluka	Bhiwandi
10.Village	Sarang & Vehale
Correspondence Name:	Mr. Veer Bharati Kouls (Authorized Person for Correspondence)
Room Number:	929
Floor:	1st Floor
Building Name:	Mantri House
Road/Street Name:	FC Road
Locality:	Pune
City:	Pune
11.Area of the project	Mumbai Metropolitan Region Development Authority (MMRDA)
12.IOD/IOA/Concession/Plan Approval Number	Received IOD vide no. SROT/BSNA/2501/BP/Sarang-Vehale-01/2546/2018 dated 27.12.2018 IOD/IOA/Concession/Plan Approval Number: Received IOD vide no. SROT/BSNA/2501/BP/Sarang-Vehale-01/2546/2018 dated 27.12.2018 Approved Built-up Area: 128472
13.Note on the initiated work (If applicable)	No work has been initiated as it is a new project
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	55,800 m2
16.Deductions	Total deductions 3,290 m2 (Road widening (45 m) : 2,443 m2 , Proposed railway line-847 m2)
17.Net Plot area	52,420 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 73,875 m2 b) Non FSI area (sq. m.): 54,597 m2 c) Total BUA area (sq. m.): 128472
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 73,875 m2 Approved Non FSI area (sq. m.): 54,597 m2 Date of Approval: 27-12-2018
19.Total ground coverage (m2)	9,683.06 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.47 % of total net plot area


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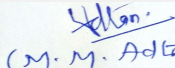
21.Estimated cost of the project		2070000000		
22.Number of buildings & its configuration				
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	Building A1	P + 22 floors	66.70	
2	Building B1	P + 17 floors	52.45	
3	Building B2	P + 17 floors	52.45	
4	Building B3	P + 17 floors	52.45	
5	Building C1	P + 21 floors	63.85	
6	Building D1	G + 1 floor + 20 parking floors	66.30	
23.Number of tenants and shops		1. Total number of tenements - 3,157 nos. 2. Total number of shops - 50 nos.		
24.Number of expected residents / users		Total population - 12,295 nos. (Residential population - 12,145 nos., Commercial population - 150 nos.)		
25.Tenant density per hectare		602 tenants/ha		
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))		45 m wide DP road		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation		Internal road - 12 m & Turning radius - 9 m		
29.Existing structure (s) if any		Not applicable		
30.Details of the demolition with disposal (If applicable)		Not applicable		
31.Production Details				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable	Not applicable	Not applicable	Not applicable
32.Total Water Requirement				

Dry season:	Source of water	S.T.E.M, Thane								
	Fresh water (CMD):	1,097								
	Recycled water - Flushing (CMD):	549								
	Recycled water - Gardening (CMD):	103								
	Swimming pool make up (Cum):	Not applicable								
	Total Water Requirement (CMD) :	1,646								
	Fire fighting - Underground water tank(CMD):	As per Fire NOC								
	Fire fighting - Overhead water tank(CMD):	As per Fire NOC								
	Excess treated water	575								
Wet season:	Source of water	S.T.E.M, Thane								
	Fresh water (CMD):	1,097								
	Recycled water - Flushing (CMD):	549								
	Recycled water - Gardening (CMD):	51								
	Swimming pool make up (Cum):	Not applicable								
	Total Water Requirement (CMD) :	1,646								
	Fire fighting - Underground water tank(CMD):	As per Fire NOC								
	Fire fighting - Overhead water tank(CMD):	As per Fire NOC								
	Excess treated water	626								
Details of Swimming pool (If any)		Not applicable								
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	


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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	Summer season -18.40 m to 24.00 m below ground level (21.20 m below ground level average), Rainy season - 8.80 m to 13.00 m below ground level (10.90 m below ground level average), Winter season - 13.60 m to 18.50 m below ground level (16.05 m below ground level average)
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	Not applicable
	Quantity of recharge pits:	11 nos. of recharge pits
	Size of recharge pits :	2 m x 2 m x 2 m
	Budgetary allocation (Capital cost) :	Rs.20 Lakh
	Budgetary allocation (O & M cost) :	Rs.4 Lakh/Year
	Details of UGT tanks if any :	1. Domestic UG tank capacity - 1,097 m ³ 2. Flushing UG tank capacity - 550 m ³ 3. Fire UGT tank capacity - As per Fire NOC
35.Storm water drainage	Natural water drainage pattern:	As per contour
	Quantity of storm water:	32.27 m ³ /min
	Size of SWD:	Pipe and chamber network diameter 150, 200, 250, 300, 450 mm
Sewage and Waste water	Sewage generation in KLD:	1,400 m ³ /day
	STP technology:	Moving Bed Biofilm reactor (MBBR)
	Capacity of STP (CMD):	1 no. of STP having capacity 1,469 m ³ /day
	Location & area of the STP:	Location - On ground (South side of the project), Area of STP - 700 m ²
	Budgetary allocation (Capital cost):	Rs.115 Lakh
	Budgetary allocation (O & M cost):	Rs.32 lakh /Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	The total excavation quantity is 16,580 m ³
	Disposal of the construction waste debris:	The debris will be stored in amenty space & will be used for landscaping purpose.
Waste generation in the operation Phase:	Dry waste:	1,433 kg/day
	Wet waste:	2,204 kg/day
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	99 kg/day
	Others if any:	E-waste - 37 kg/day

Mode of Disposal of waste:	Dry waste:	Dry garbage will be segregated & disposed of to recyclers.
	Wet waste:	Wet garbage will be treated by using Organic waste converter machine
	Hazardous waste:	Not applicable
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Dry sludge can be used as manure for plantation & gardening purposes inside the premise.
	Others if any:	E-waste authorized hazardous waste management agencies..
Area requirement:	Location(s):	On ground
	Area for the storage of waste & other material:	200 m2
	Area for machinery:	55 m2
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs.30 Lakh
	O & M cost:	Rs.3 Lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

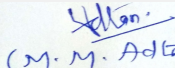
40.Details of Fuel to be used

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


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43.Green Belt Development	Total RG area :	13,342.20 m ²
	No of trees to be cut :	19 nos. of trees will be cut/transplanted
	Number of trees to be planted :	698 nos.
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	6 to 9 months after completion of Civil Works.

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Albizia Lebbek	Shirish	22	Shady tree with yellowish green fragrant flowers
2	Artocarpus heterophyllus	Fanas	46	Shady tree, arrests soil erosion
3	Azadirachta indica	Neem/ Kadunimb	38	Hardy, drought resistant Medicinal Tree
4	Bauhinia purpurea	Apata /Kanchan	28	Butterfly-host tree
5	Cassia fistula	Bhava	24	Drought-resistant, Shady Tree
6	Dalbergia Sisoo	Sisoo/ Shisham	27	Drought-resistant, Shady Tree
7	Lagerstroemia Flosreginae	Tamhan	33	Hardy, Shady, Ornamental Tree
8	Mangifera Indica	Mango/ Amba	93	Fruits attract birds and butterflies
9	Michelia Champaka	Piwala Chapha	15	Butterfly Host Plant
10	Mutingia Calabaura	Cherry	94	Fruits attract Birds and Butterflies
11	Pterospermum Acerifolium	Muchkund	37	Quick growing tree
12	Pongamia Pinnata	Karanj	20	Shade-giving tree
13	Saraca Indica	Sita Ashok	60	Shade-giving tree
14	Syzgium Cumini	Jamun/ Jambhul	99	Shady Tree, fruits attract birds and butterflies
15	Tamarindus Indica	Imli/ chinch	62	Shady tree, fruits attract birds and butterflies
16	Total No of Trees	-	698	-
17	Existing Trees	-	10 nos. (to retained) + 19 nos. (to be cut/transplanted) = 29 nos.	-

45.Total quantity of plants on ground

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

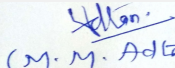
Serial Number	Name	C/C Distance	Area m ²
1	Not applicable	Not applicable	Not applicable

47.Energy


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Power requirement:	Source of power supply :	Maharashtra State Electricity Distribution Company Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	1 no. x 125 kVA
	During Operation phase (Connected load):	4,540 kW
	During Operation phase (Demand load):	3,766 kW
	Transformer:	6 nos. x 630 kVA
	DG set as Power back-up during operation phase:	1 no. x 400 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not applicable

48. Energy saving by non-conventional method:

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

49. Detail calculations & % of saving:

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

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs.127 Lakh
	O & M cost:	Rs.15 Lakh/year

51. Environmental Management plan Budgetary Allocation

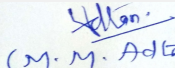
a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

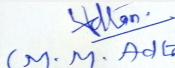
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment plant	1 no. of STP having capacity of 1,469 m ³ /day	115.00	32.00
2	Solid Waste management	1 no. of OWC unit	30.00	3.00
3	Landscape & Irrigation Development	698 nos. of trees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

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


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

52. Any Other Information

No Information Available

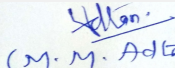
53. Traffic Management

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


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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

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

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

It is noted that the project earlier considered in 93rd SEAC-2 Meeting held on 26-03-2019 & deferred with observations namely 1) to submit the copy of 7/12 of one plot after amalgamation. 2) to submit / upload approved layout plan from competent authority. 3) to ensure no construction activity upto 10.5 mtr on both sides of high tension line as mentioned in the NoC issued by MSETCL. 4) It is noted that, there is no water supply NOC, no guaranteed water supply source, no existing storm water network, no sewer line and also there is no approach road existing or abutting the site. Even then DP road of 45 m is shown as proposed, but any work of said road is not started at any section. Even a smaller width of proposed DP road is not existing on the site or any nearby plot. PP to submit details regarding all these issues with timeline. 5) to submit copy of agreement with Irrigation dept and STEM regarding supply of drinking water. 6) to submit detailed plan of utilisation of excess treated water. 7) to provide 12 mtr contagious and circulatory internal road. revise and submit fire tender movement plan also accordingly. 8) to submit wind analysis, traffic analysis, light and ventilation analysis and measures to reduce heat island effect. Accordingly compliance submitted by PP was taken on record.

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

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DECISION OF SEAC

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

Specific Conditions by SEAC:

1) Committee noted that, there is no approach road existing or abutting the site. Even then DP road of 45 m is shown as proposed, but any work of said road is not started at any section. Even a smaller width of proposed DP road is not existing on the site or any nearby plot. The project site is 1.5 KM away from main road. Committee also observed that there is no guaranteed water supply source, no existing storm water network, no sewer line therefore the proposal is not ripe for even consideration at this stage. Committee also noted that, PP not submitted the compliance of point 1,4 & 6 i.e copy of 7/12 of one plot after amalgamation, PP has not submitted the compliance regarding the timeframe of concern authority to complete the above said work. Also not submitted the detail plan regarding the same. PP to submit details regarding all these issues with the timeframe of concern authority to complete the work.

FINAL RECOMMENDATION

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

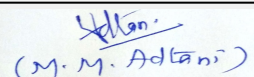
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Agenda of 98th Day-1 SEAC-2 meeting held on 3rd -4th May, 2019

SEAC Meeting number: 98th Meeting Date May 3, 2019

Subject: Environment Clearance for Amendment and Expansion in EC for proposed development of residential project at plot bearing S. No. 5, 9, 13 to 15, 17, 18, 38 /1D, 22 to 24, 26, 29 to 34, 38 to 42, 53 & 2, 7, 11, 12, 16, 19, 28, 43 (all in parts) at village Sagarli, Tal & Dist. Thane, Maharashtra proposed By Shree Khidkaleshwar Property Developers Pvt. Ltd. (Formerly known as M/s. Shree Khidkaleshwar Land Developers)

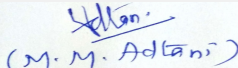
Is a Violation Case: No

1.Name of Project	SHREE KHIDKALESHWAR PROPERTY DEVELOPERS PVT. LTD. (Formerly known as M/s. Shree Khidkaleshwar Land Developers)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Bharat Shah, SHREE KHIDKALESHWAR PROPERTY DEVELOPERS PVT. LTD.
4.Name of Consultant	Dr. D. A. Patil, MAHABAL ENVIRO ENGG. PVT. LTD.
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment and Expansion in EC for proposed development of residential project "River wood Park"
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Obtained EC vide letter No. 21-54/08 IA III dt. 7th Oct 2010 for the plot area 1, 64,930 m ² having FSI area 97,597.54 m ² & total construction area 1,13,038.54 m ² . Existing 40 buildings having FSI area 61,311.27 m ² & total construction area 64,546.27 m ² were completed prior to 2004.
8.Location of the project	Plot S. No. 5, 9, 13 to 15, 17, 18, 38 /1D, 22 to 24, 26, 29 to 34, 38 to 42, 53 & 2, 7, 11, 12, 16, 19, 28, 43 (all in parts) at Village Sagarli, Tal & Dist. Thane, Maharashtra.
9.Taluka	Thane
10.Village	Sagarli
Correspondence Name:	Mr. Bharat Shah
Room Number:	205 Commerce House
Floor:	2nd floor
Building Name:	Commerce House
Road/Street Name:	140 Nagindas Master Road
Locality:	Fort
City:	Mumbai- 400023
11.Area of the project	Thane Municipal Corporation (TMC)
12.IOD/IOA/Concession/Plan Approval Number	Approval from TMC vide letter No. V. P. No. 95/135 TMC/TD-DP/TPS/40 Date 01/06/2016 IOD/IOA/Concession/Plan Approval Number: Approval from TMC vide letter No. V. P. No. 95/135 TMC/TD-DP/TPS/40 Date 01/06/2016 Approved Built-up Area: 121616.59
13.Note on the initiated work (If applicable)	Work started as per the EC received vide letter No. 21-54/08 IA III dt. 7th Oct 2010. Completed Prior to 2004 FSI: 61,311.27 m ² & Total construction area: 64,546.27 m ² . Proposed construction as per EC 2010: FSI: 8,926.55 m ² & Total construction area: 12,789.55 m ²
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Approval from TMC vide letter No. V. P. No. 95/135 TMC/TD-DP/TPS/40 Date 01/06/2016
15.Total Plot Area (sq. m.)	1,66,430 m ²
16.Deductions	14,296.75 m ²
17.Net Plot area	1,52,133.25 m ²
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 2,63,025.74 m ² b) Non FSI area (sq. m.): 1,76,007.37 m ² c) Total BUA area (sq. m.): 439033.11
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 121616.59 Approved Non FSI area (sq. m.): 1,15,051.96 m ² Date of Approval: 01-06-2016
19.Total ground coverage (m2)	Existing: 17,000 m ² & Proposed: 35,386.09 m ²
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Existing: 10.21% & Proposed: 21.26%


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21.Estimated cost of the project		8310000000	
22.Number of buildings & its configuration			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Existing Buildings (prior to 2004)	-	-
2	Buildings Type D, F, F-1, G, H, K, R4 [21 Bldgs.]	Ground + 4 Upper Floors	14.90 m
3	Buildings Type A-1, B-1, J [5 Bldgs.]	Ground + 7 Upper Floors	23.77 m
4	Buildings Type A-2 & A-3 [2 Bldgs.]	Ground + 7 Upper Floors	23.77 m
5	Buildings Type A, B, C, R2, R3 [12 Bldgs.]	Ground + 7 Upper Floors	22.86 m
6	Proposed Buildings	-	-
7	U-3 (1) [1 Bldg.]	S + 24th upper floors	76.40 m
8	U-3 (2,3) [2 Bldgs.]	S + 3P + 24 upper floors	86.70 m
9	U-5 (4,5,6,7) [4 Bldgs.]	S + 3P + 24 upper floors	86.70 m
10	U-6 (39, 40, 41,42) [4 Bldgs.]	S + 3P + 30 upper floors	105.0 m
11	U-7(43, 44, 47, 48, 50) [5 Bldgs.]	S + 3P + 30 upper floors	105.0 m
12	U-8 (45,46) [2 Bldgs.]	S + 3P + 30 upper floors	105.0 m
13	U-9 (49) [1 Bldg.]	S + 3P + 30 upper floors	105.0 m
14	U-10 (64) [1 Bldg.]	S + 30 upper floors	94.70 m
15	U-11 (65) [1 Bldg.]	S + 30 upper floors	94.70 m
16	School Bldg. [1 Bldg.]	S + 6 upper floors	26.25 m
23.Number of tenants and shops		Existing: 1,208 Nos. (prior to 2004) Proposed: 4,201 Nos. Total : 5,409 Nos.	
24.Number of expected residents / users		Population: 27,940 Nos.	
25.Tenant density per hectare		385/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))		60.0 m wide Kalyan Shilphata Road	
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation		9 m	
29.Existing structure (s) if any		Yes, Existing 40 Buildings prior to 2004 of G+4/7 floors.	
30.Details of the demolition with disposal (If applicable)		Na	

31. Production Details

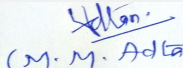
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable	Not applicable	Not applicable	Not applicable

32. Total Water Requirement

Dry season:	Source of water	TMC
	Fresh water (CMD):	2,456 KLD
	Recycled water - Flushing (CMD):	1,235 KLD
	Recycled water - Gardening (CMD):	254 KLD
	Swimming pool make up (Cum):	10 KLD
	Total Water Requirement (CMD) :	3,701 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	1,922 KLD
Wet season:	Source of water	TMC + RWH
	Fresh water (CMD):	2,280 KLD + 176 KLD
	Recycled water - Flushing (CMD):	1,235 KLD
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	3,701 KLD
	Fire fighting - Underground water tank(CMD):	As per CFO NOC
	Fire fighting - Overhead water tank(CMD):	As per CFO NOC
	Excess treated water	2,176 KLD
Details of Swimming pool (If any)	Yes, provided on 3rd podium	

33. Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	3-4 m
	Size and no of RWH tank(s) and Quantity:	8 Nos. of tanks of total 550 KL capacity
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	Recharge pits proposed: 22 Nos.
	Size of recharge pits :	Size: 2.00 m x 1.50 m x 2.0 m
	Budgetary allocation (Capital cost) :	Rs. 127 lakh
	Budgetary allocation (O & M cost) :	Rs.13 lakh/ y
	Details of UGT tanks if any :	Underground
35.Storm water drainage	Natural water drainage pattern:	Towards East
	Quantity of storm water:	3.76 m ³ /s
	Size of SWD:	600 x 450, 600 x 600, 450 x 300, 400 x 450, 750 x 600, 1200 x 1500, 750 x 400, 450 x 350, 1000 x 1150 etc. (all in mm)
Sewage and Waste water	Sewage generation in KLD:	3,446 KLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	8 Nos. of STP having total 3,550 KLD capacity i.e. • STP 1: 125 KLD • STP 2: 225 KLD • STP 3: 240 KLD • STP 4: 235 KLD • STP 5: 1675 KLD • STP 6: 225 KLD • STP 7: 50 KLD • STP 8: 775 KLD.
	Location & area of the STP:	Ground & area provided • STP 1: 100 m ² • STP 2: 150 m ² • STP 3: 170 m ² • STP 4: 170 m ² • STP 5: 1200 m ² • STP 6: 160 m ² • STP 7: 35 m ² • STP 8: 550 m ² .
	Budgetary allocation (Capital cost):	Rs. 710 Lakh
	Budgetary allocation (O & M cost):	Rs. 142 Lakh/y
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Construction debris : 11,000 m ³
	Disposal of the construction waste debris:	The construction debris will be utilized at site for Road Paving. The construction debris & excavated material will be disposed as per the "Construction and Demolition and Desilting Waste (Management and Disposal) Rules 2016".
Waste generation in the operation Phase:	Dry waste:	5,481 kg/d
	Wet waste:	8,221 kg/d
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	34 m ³ /day
	Others if any:	Household E-Waste Generation
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Mode of Disposal of waste:	Dry waste:	Dry garbage will be disposed off to authorized recyclers
	Wet waste:	Wet garbage will be composted using Biomethanation plant.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Sludge use as manure for gardening
	Others if any:	The E-waste shall be handed over to E-waste management vendor authorized by MPCB (if any).
Area requirement:	Location(s):	Ground
	Area for the storage of waste & other material:	Area provided: 400 m2
	Area for machinery:	400 m2
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 80 Lakh
	O & M cost:	Rs. 32 Lakh/y

37. Effluent Characteristics

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

38. Hazardous Waste Details

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

39. Stacks emission Details

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

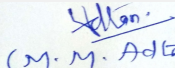
40. Details of Fuel to be used

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


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43.Green Belt Development	Total RG area :	RG area required: 21,079.61 m2, RG area provided: 50,777.71 m2
	No of trees to be cut :	Nil
	Number of trees to be planted :	Trees planted till date: 354 Nos., New Trees to be planted: 1,546 Nos.
	List of proposed native trees :	As Mentioned Below
	Timeline for completion of plantation :	2 Years

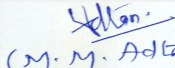
44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Lagerstromia Reginea	Taaman	64	Official state tree
2	Saraca indica	Sita Ashok	72	Hardly evergreen tree, grows well in warm climate
3	Butea Monosperma	Palash	56	Medium deciduous tree with bright flowers
4	Anthocephalus kadamba	Kadamb	68	Deciduous tree, large foliage & beautiful tree
5	Azadirachta Indica	Neem	72	Hardy evergreen tree, has medicinal properties
6	Murraya exotica	Kunti	76	Small, evergreen tree, good for gardens
7	Magnolia Champaca	Chafa	82	Ornamental flowering tree, hardy in nature
8	Erythrina indica	Pangara	74	Medium sized deciduous tree. Bright scarlet flowers
9	Murraya Koenigii	Curry Leaves	63	Evergreen tree, has medicinal properties
10	Citrus sp	Lemon	88	Butterfly host plant
11	Michelia champaca	Son Chafa	75	Medium sized evergreen tree, fragrant yellow flowers
12	Cassia fistula	Bahava	70	Medium sized deciduous tree, Beautiful yellow flowers and Butterfly host plant.
13	Alstonia scholaris	Satvin	85	Shady, large evergreen tree, white fragrant flowers
14	Pongamia pinnata	Karanj	95	Shady tree
15	Albizia lebbeck	Shirij	86	Shady tree, yellowish green fragrant flowers
16	Erythrina Variegata	Coral Tree	74	Deciduous flowering tree, quick growing tree
17	Phyllanthus Emblica	Amla	76	Fruit tree attracting birds
18	Manilkara Zapota	Chicu	62	Fruit tree attracting birds
19	Tamarindus Indica	Tamarind	66	Large fruit tree attracting birds
20	Syzygium Cumini	Jaamun Tree	74	Fruit tree attracting birds
21	Ailanthus excelsa	Maharukh	68	Large tree, good for roadside plantation


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45.Total quantity of plants on ground				
46.Number and list of shrubs and bushes species to be planted in the podium RG:				
Serial Number	Name	C/C Distance	Area m2	
1	-	-	-	
47.Energy				
Power requirement:	Source of power supply :	MSDCL		
	During Construction Phase: (Demand Load)	660 kW		
	DG set as Power back-up during construction phase	5 x 82.5 kVA		
	During Operation phase (Connected load):	19 MW		
	During Operation phase (Demand load):	10.5 MW		
	Transformer:	16 x 990 kVA		
	DG set as Power back-up during operation phase:	Total DG set Capacity: 10 x 125 kVA		
	Fuel used:	Diesel		
	Details of high tension line passing through the plot if any:	No		
48.Energy saving by non-conventional method:				
- Solar hot water will be provided. - Solar Panel lights will be installed for common facilities whenever possible.				
49.Detail calculations & % of saving:				
Serial Number	Energy Conservation Measures		Saving %	
1	Total energy saving		19.22 %	
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:	Rs. 150 Lakhs		
	O & M cost:	Rs. 08 Lakh/y		
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	-	25
2	Site sanitation (Toilets)	-	10
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	-	12
5	Health check-up & first aid	-	8.5
6	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Goggles, Hand Gloves etc.)	-	24
7	Traffic Management (Sign Boards, Persons at entry exit and Parking area)	-	5.5
8	Safety nets	-	10
9	Tyre cleaning and Vehicle maintenance	-	8.5
10	Solid Waste Management & Site maintenance activity	-	5.5
11	Safety - Training to Workers (Twice in Year), Safety Officer	-	3.5

b) Operation Phase (with Break-up):

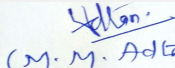
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP (Tertiary)	710	142	Continuous O & M
2	Solar System	150	8	Weekly
3	Rain Water Harvesting	127	13	During rainy season (Cleaning of RWH tanks and Filtration chamber)
4	Biomethanation Plant	80	32	Continuous O & M
5	Landscape development	508	76	Daily
6	Environmental Monitoring	-	8	As per the CPCB guidelines through MoEF Approved laboratories

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


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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

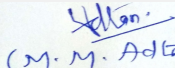
53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	60.0 m wide Kalyan Shilphata Road & 9 m, 12 m, 24 m wide internal Roads
Parking details:	Number and area of basement:	NA
	Number and area of podia:	3 Podiums for Unit No. 3, 5 & Phase III (Unit 6 to 9) having total area 92,218.98 m2. Unit No. 3: Per Podium area: 2,380.68 m2 , Unit No. 5: Per Podium area: 4,900.16 m2, Phase III (Unit 6 to 9): Per Podium area: 23,558.82 m2
	Total Parking area:	92,218.98 m2
	Area per car:	28.5 m2
	Area per car:	28.5 m2
	Number of 2-Wheelers as approved by competent authority:	5,319 Nos.
	Number of 4-Wheelers as approved by competent authority:	Existing: Req: 583 Nos. & Provided: 596 Nos., Proposed: Req: 3,585 Nos. & Provided: 3,629 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	60.0 m wide Kalyan Shilphata Road
	CRZ/ RRZ clearance obtain, if any:	Obtained
	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


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	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	30-05-2016

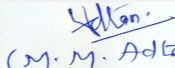
TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
13.Note on the initiated work (If applicable)	Work started as per the EC received vide letter No. 21-54/08 IA III dt. 7th Oct 2010. Completed Prior to 2004 FSI: 61,311.27 m ² & Total construction area: 64,546.27 m ² . Proposed construction as per EC 2010: FSI: 8,926.55 m ² & Total construction area: 12,789.55 m ²	Work started as per the EC received vide letter No. 21-54/08 IA III dt. 7th Oct 2010. Completed Prior to 2004 FSI: 61,311.27 m ² & Total construction area: 64,546.27 m ² . Proposed construction as per EC 2010: FSI: 16,313.35 m ² & Total construction area: 27,881.34 m ²
32.Total Water Requirement (Dry season)	Fresh water (CMD): 2,456 KLD, Recycle water Flushing (CMD): 1,235, Excess treated water (CMD): 1,922	Fresh water (CMD): 2,728 KLD, Recycle water Flushing (CMD): 963, Excess treated water (CMD): 1,441
32.Total Water Requirement (Wet season)	Fresh water (CMD): 2,289 KLD + 176 KLD (RWH), Recycle water Flushing (CMD): 1,235, Excess treated water (CMD): 2,176	Fresh water (CMD): 2,557 KLD + 176 KLD (RWH), Recycle water Flushing (CMD): 963, Excess treated water (CMD): 1,695 KLD
34.Rain Water Harvesting (RWH)	8 Nos. of tanks of total 550 KL capacity	7 Nos. of tanks of total 561 KL capacity
35.Storm water drainage	Quantity of storm water: 3.76 m ³ /s	Quantity of storm water: 7.35 m ³ /s
36. Sewage and waste water	Sewage generation in KLD: 3,446 KLD	Sewage generation in KLD: 2,685 KLD
36. Sewage and waste water	Capacity of STP (CMD): 8 Nos. of STP having total 3,550 KLD capacity i.e. • STP 1: 125 KLD • STP 2: 225 KLD • STP 3: 240 KLD • STP 4: 235 KLD • STP 5: 1675 KLD • STP 6: 225 KLD • STP 7: 50 KLD • STP 8: 775 KLD.	Capacity of STP (CMD): 7 Nos. of STP having total 2,730 KLD capacity i.e. • STP 1: 235 KLD • STP 2: 235 KLD • STP 3: 125 KLD • STP 4: 215 KLD • STP 5: 225 KLD • STP 6: 1645 KLD • STP 7: 50 KLD
36. Sewage and waste water	Location & area of the STP: Ground & area provided • STP 1: 100 m ² • STP 2: 150 m ² • STP 3: 170 m ² • STP 4: 170 m ² • STP 5: 1200 m ² • STP 6: 160 m ² • STP 7: 35 m ² • STP 8: 550 m ² .	Location & area of the STP: Ground & area provided • STP 1: 160 m ² • STP 2: 160 m ² • STP 3: 90 m ² • STP 4: 160 m ² • STP 5: 160 m ² • STP 6: 770 m ² • STP 7: 55 m ² .
37.Solid waste Management (Waste generation in the operation Phase)	STP Sludge (Dry sludge): 34 m ³ /day	STP Sludge (Dry sludge): 27 m ³ /day
44.Green Belt Development	Number of trees to be planted: Trees planted till date: 354 Nos., New Trees to be planted: 1,546 Nos.	Number of trees to be planted: Trees planted till date: 354 Nos., New Trees to be planted: 2,946 Nos.
45.Number and list of trees species to be planted in the ground	• Taaman: 64, • Sita Ashok: 72, • Palash: 56, • Kadamb: 68, • Neem: 72, • Kunti: 76, • Chafa: 82, • Pangara: 74, • Curry Leaves: 63, • Lemon: 88, • Son chafa: 75, • Bahava: 70, • Satvin: 85, • Karanj: 95, • Shirij: 86, • Coral tree: 74, • Amla: 76, • Chicu: 62, • Tamarind: 66, • Jaamun Tree: 74, • Maharukh: 68.	• Taaman: 131, • Sita Ashok: 139, • Palash: 123, • Kadamb: 135, • Neem: 139, • Kunti: 143, • Chafa: 149, • Pangara: 141, • Curry Leaves: 129, • Lemon: 154, • Son chafa: 141, • Bahava: 139, • Satvin: 151, • Karanj: 151, • Shirij: 152, • Coral tree: 140, • Amla: 140, • Chicu: 128, • Tamarind: 132, • Jaamun Tree: 146, • Maharukh: 134.
50.Detail calculations & % of saving:	Total energy saving: 19.22 %	Total energy saving: 22.6 %


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54. Traffic Management	Number of 4- Wheelers as approved by competent authority: Existing: Req: 583 Nos. & Provided: 596 Nos., Proposed: Req: 3,585 Nos. & Provided: 3,629 Nos.	Number of 4- Wheelers as approved by competent authority: Existing: Req: 583 Nos. & Provided: 596 Nos., Proposed: Req: 3,913 Nos. & Provided: 3,920 Nos.
54. Traffic Management	Category as per schedule of EIA Notification sheet: 8(a)	Category as per schedule of EIA Notification sheet: 8(b)

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

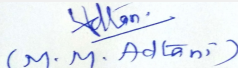
PP Mr. Bharat Shah was present during the meeting along with environmental consultant M/s. MAHABAL ENVIRO ENGG. PVT. LTD.

PP informed that, the project under consideration is *proposed Housing Amendment and Expansion in EC for proposed development of residential project "River wood Park" project covered under PMAY*. PP further stated that, the total plot area of the project is 1,66,430 Sq.mt. having total construction area 439033.11 Sq.mt. (FSI - 2,63,025.74 sq.mt + NON FSI 1,76,007.37 sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Existing Buildings (prior to 2004)	--	--
Buildings Type D, F, F-1, G, H, K, R4 [21 Bldgs.]	Ground + 4 Upper Floors	14.90 m
Buildings Type A-1, B-1, J [5 Bldgs.]	Ground + 7 Upper Floors	23.77 m
Buildings Type A-2 & A-3 [2 Bldgs.]	Ground + 7 Upper Floors	23.77 m
Buildings Type A, B, C, R2, R3 [12 Bldgs.]	Ground + 7 Upper Floors	22.86 m
Proposed Buildings	--	--
U-3 (1) [1 Bldg.]	S + 24th upper floors	76.40 m
U-3 (2,3) [2 Bldgs.]	S + 3P + 24 upper floors	86.70 m
U-5 (4,5,6,7) [4 Bldgs.]	S + 3P + 24 upper floors	86.70 m
U-6 (39, 40, 41,42) [4 Bldgs.]	S + 3P + 30 upper floors	105.0 m
U-7(43, 44, 47, 48, 50) [5 Bldgs.]	S + 3P + 30 upper floors	105.0 m
U-8 (45,46) [2 Bldgs.]	S + 3P + 30 upper floors	105.0 m
U-9 (49) [1 Bldg.]	S + 3P + 30 upper floors	105.0 m
U-10 (64) [1 Bldg.]	S + 30 upper floors	94.70 m
U-11 (65) [1 Bldg.]	S + 30 upper floors	94.70 m
School Bldg. [1 Bldg.]	S + 6 upper floors	26.25 m

It is noted that, Project has received Environmental clearance vide letter dated 7th Oct 2010 for total built up area 164930 Sq.mt. It is noted that the project earlier considered in 79th SEAC-2 Meeting held on 28-11-2018 & ToR was granted for the same.

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

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DECISION OF SEAC

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

Specific Conditions by SEAC:

- 1) PP to submit the revised dated Architect certificate addressed to committee regarding building-wise construction done on site along with copy of layout submitted during earlier EC.
- 2) PP to submit the current site photographs to confirm the podium is not constructed.
- 3) PP to submit the explanatory note regarding % variation in the project & there is no change in foot print of the project.

FINAL RECOMMENDATION

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

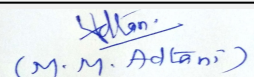
SEAC-AGENDA-0000000261



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**Shri M.M. Adtani (Chairman
SEAC-II)**

Agenda of 98th Day-1 SEAC-2 meeting held on 3rd -4th May, 2019

SEAC Meeting number: 98th Meeting Date May 3, 2019

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

Is a Violation Case: No

1.Name of Project	Ocean Towers
2.Type of institution	Private
3.Name of Project Proponent	M/s. Marine Drive Hospitality & Realty Pvt. Ltd.
4.Name of Consultant	Saurabh Jaiswar
5.Type of project	Housing project with Public Parking
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	CS No. 2193, Near SK Patil Udyan, Maharshi Karve Road, Charni Road, Mumbai 400-002
9.Taluka	Mumbai
10.Village	Mumbai
Correspondence Name:	Mr. Jagdish Kadu
Room Number:	-
Floor:	-
Building Name:	DB House
Road/Street Name:	Gen A K Vaidya Marg
Locality:	Goregaon (E)
City:	Mumbai - 400063
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOD document
	IOD/IOA/Concession/Plan Approval Number: EB/1525/C/A
	Approved Built-up Area: 191543.07
13.Note on the initiated work (If applicable)	Partial excavation started, Debris generated: 9000 m3
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	IOD document : EB/1525/C/A
15.Total Plot Area (sq. m.)	9309.94 sq m
16.Deductions	0
17.Net Plot area	9309.94 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 50273.62
	b) Non FSI area (sq. m.): 143653.25
	c) Total BUA area (sq. m.): 193926.87
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 48512.41
	Approved Non FSI area (sq. m.): 143030.66
	Date of Approval: 08-03-2018
19.Total ground coverage (m2)	5500.94
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	59.08%
21.Estimated cost of the project	17000000000

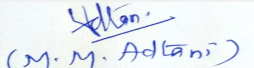
22.Number of buildings & its configuration

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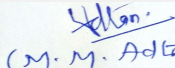

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1	Tower 1	1st to 7th Basement + Ground floor+ 1st to 7th Podium floors+ club house floor + service floor+ 10th Refuge floor +11th to 16th residential floors + 17th Refuge floor+ 18th Service floor + 19th Fire check floor + 20th to 25th residential floors+ 26th refuge floor + 27th to 32nd residential floors + 33rd refuge floor + 34th to 36th residential floors + 37th service floor + 38th fire check floor + 39th to 41st residential floors+ 42nd refuge floor + 43rd to 48th residential floors+ 49th refuge fl	290
2	Tower 2	1st to 7th Basement + Ground floor+ 1st to 7th Podium floors+ club house floor + service floor+ 10th Refuge floor +11th to 16th residential floors + 17th Refuge floor+ 18th Service floor + 19th Fire check floor + 20th to 25th residential floors+ 26th refuge floor + 27th to 32nd residential floors + 33rd refuge floor + 34th to 36th residential floors + 37th service floor + 38th fire check floor + 39th to 41st residential floors+ 42nd refuge floor + 43rd to 48th residential floors+ 49th refuge fl	314.2
23.Number of tenants and shops		Total no. of Flats: 193 Nos.	
24.Number of expected residents / users		1960	
25.Tenant density per hectare		207 per hectore	
26.Height of the building(s)			
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))		27.44 mt wide Maharshi Karve road	
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation		minimum 9m	
29.Existing structure (s) if any		NO	
30.Details of the demolition with disposal (If applicable)		The existing structures on site has been demolished and the Demolition waste has been disposed of as per the "Construction Demolition Waste (Management &. Disposal) Rules 2016"	


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31. Production Details

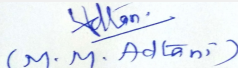
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable	Not applicable	Not applicable	Not applicable

32. Total Water Requirement

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

33. Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	5-6 m
	Size and no of RWH tank(s) and Quantity:	8 tanks (223.19 m3/day, 115.24 m3/day, 38.26 m3/day, 46.16 m3/day, 11.21 m3/day, 24.54 m3/day, 40.98 m3/day, 40.98 m3/day)
	Location of the RWH tank(s):	6 tanks on Basement 1 & 2 and 2 tanks on Basement 3
	Quantity of recharge pits:	Not applicable
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	126 Lakhs
	Budgetary allocation (O & M cost) :	8 lakhs
	Details of UGT tanks if any :	Basement 1 & 2- Fire Water tank (Pvt.) - 415.54 m3/day , Fire Water tank (PPL) -189.11 m3/day, RWH tank 1 - 223.19 m3/day, RWH tank 2 -115.24 m3/day, RWH tank 3 - 38.26 m3/day, RWH tank 4 - 46.16 m3/day, RWH tank 5- 11.21 m3/day, RWH tank 6 - 24.54 m3/day Basement 3- RWH tank 7 - 40.98 m3/day RWH tank 8 - 40.98 m3/day Basement 6- Portable water tank 1 - 40.98 m3/day Basement 7- Portable water tank 2 - 40.98 m3/day
35.Storm water drainage	Natural water drainage pattern:	The storm water collected through storm water drains of adequate capacity will be discharged into municipal SWD
	Quantity of storm water:	0.86 m3/sec
	Size of SWD:	450 mm wide drain with slope of 1: 300
Sewage and Waste water	Sewage generation in KLD:	196
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of capacity 220 m3/day
	Location & area of the STP:	Location of STP: Basement 1 & 2 and opening at the Ground, Area of STP- 325 m2
	Budgetary allocation (Capital cost):	35 Lakhs
	Budgetary allocation (O & M cost):	5-7 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	90 kg/day
	Disposal of the construction waste debris:	scrap material will be disposed to Authorized Vendor
Waste generation in the operation Phase:	Dry waste:	265.86 kg/day
	Wet waste:	473.1 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	4.4 CMD
	Others if any:	Not Applicable
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Mode of Disposal of waste:	Dry waste:	Dry garbage will be segregated and disposed off to recyclers
	Wet waste:	Wet garbage will be composted using Organic Waste converter and In-Vessel Composter and used as Organic manure for landscaping
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	Not Applicable
Area requirement:	Location(s):	Ground floor
	Area for the storage of waste & other material:	Composter area: 31.33 m2 and Garbage collection area: 19.31 m2
	Area for machinery:	Composter area: 31.33 m2
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	22 Lakhs
	O & M cost:	3-4 Lakhs

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

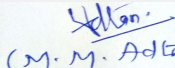
40.Details of Fuel to be used

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


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

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

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

45.Total quantity of plants on ground

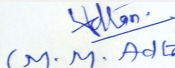
46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial Number	Name	C/C Distance	Area m2
1	Natal lily	-	-
2	Big lily	-	-
3	Sonn Takka	-	-


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

47. Energy

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

48. Energy saving by non-conventional method:

- Natural shading through elevation features to minimize heat gain and reduce air-conditioning requirement
- Use of low-e glass to reduce power requirement
- Solar lighting in common areas, garden and road
- Solar hot water for residential buildings
- Solar street lights will be proposed
- Energy efficient lighting fixtures (LED lights) to all buildings

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	% energy saving w.r.t. energy consumed	16.41%
2	% of renewable w.r.t. energy saving	1.38%

50. Details of pollution control Systems

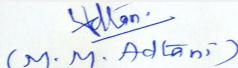
Source	Existing pollution control system	Proposed to be installed
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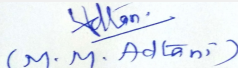
Shri M.M. Adtani (Chairman SEAC-II)

Not applicable	Not applicable		Not applicable				
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	50 Lakhs					
	O & M cost:	6 Lakhs					
51.Environmental Management plan Budgetary Allocation							
a) Construction phase (with Break-up):							
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)				
1	Barricading and dust suppression	Air pollution and Erosion control	5				
2	Environmental Monitoring	Air, Water, Soil and Noise Monitoring	1.5				
3	PPE for workers (gloves, specs, boots etc.)	site safety and health safety	4.6				
4	bio-toilets and basins	site sanitation	3				
5	Health Checkups	Health safety	3				
b) Operation Phase (with Break-up):							
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)			
1	STP (MBBR)	Waste water treatment	35 Lakhs	5-7 Lakhs			
2	MSW	IVC and OWC	22 Lakhs	3-4 Lakhs			
3	RWH	Rain water harvesting	126 lakhs	10 Lakhs			
4	Landscape	RG area	40 Lakhs	3 Lakhs			
5	DMP	safety measures	628 Lakhs	125 Lakhs			
6	Solar Energy System	Renewable energy uses	50 lakhs	6 lakhs			
7	Basement Air Cleaning System	-	156.87 Lakhs	23.5 Lakhs			
8	Compliance Monitoring	Air, Water, Noise, Soil monitoring (as per MoEF)	-	1.5 Lakhs			
51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)							
Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
52.Any Other Information							
No Information Available							
53.Traffic Management							


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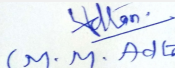

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	Nos. of the junction to the main road & design of confluence:	Entry and exit at 27.44 mt wide Maharshi Karve road, Entry and Exit at 18.30 mt wide Dr. Babasaheb Jaykar marg for MCGM Parking, Entry and Exit for Services at 12.20 mt wide S.K. Patil road
Parking details:	Number and area of basement:	Basement 1: 3856.33 m ² , Basement 2: 4463.08 m ² , Basement 3: 4441.08 m ² , Basement 4: 4832.67m ² , Basement 5: 4842.27 m ² , Basement 6: 4782.61 m ² , Basement 7: 4782.61 m ²
	Number and area of podia:	Podium 1: 3621.77 m ² , Podium 2: 3639.30 m ² , Podium 3: 3641.56 m ² , Podium 4: 3639.58 m ² , Podium 5: 4355.20 m ² , Podium 6: 4367.21 m ² , Podium 7: 4357.26 m ² , Podium 8: 4881.36 m ² ,
	Total Parking area:	16378.7 sq. m
	Area per car:	Basement 1: 63.21 m ² , Basement 2: 68.66 m ² , Basement 3: 51.64 m ² , Basement 4: 43.93 m ² , Basement 5: 42.47 m ² , Basement 6: 41.95 m ² , Basement 7: 39.20 m ² , Podium 1: 49.61 m ² , Podium 2: 49.85 m ² , Podium 3: 49.88 m ² , Podium 4: 47.26 m ² , Podium 5: 42.69 m ² , Podium 6: 42.81m ² , Podium 7: 40.35 m ² ,
	Area per car:	Basement 1: 63.21 m ² , Basement 2: 68.66 m ² , Basement 3: 51.64 m ² , Basement 4: 43.93 m ² , Basement 5: 42.47 m ² , Basement 6: 41.95 m ² , Basement 7: 39.20 m ² , Podium 1: 49.61 m ² , Podium 2: 49.85 m ² , Podium 3: 49.88 m ² , Podium 4: 47.26 m ² , Podium 5: 42.69 m ² , Podium 6: 42.81m ² , Podium 7: 40.35 m ² ,
	Number of 2-Wheelers as approved by competent authority:	320
	Number of 4-Wheelers as approved by competent authority:	772 Captive Parking
	Public Transport:	508 MCGM Parking
	Width of all Internal roads (m):	6 mt for 4 wheelers, 9 mt for CFO, 13 mt for HMV and LCV
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	Category 8 (b)- B1
	Court cases pending if any	No
	Other Relevant Informations	The project was applied at MoEF &CC, Delhi level vide Proposal no. IA/MH/NCP/72869/2018 and ToR application was submitted on 14th February, 2018. The project was was transferred to SEIAA with New proposal No. SIA/MH/NCP/25648/2018 dated 17.4.2018
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900


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SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

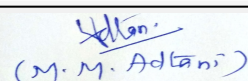
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Representative of PP was present during the meeting along with Environmental Consultant M/S SGM

PP informed that, the project under consideration is *proposed New Housing project with Public Parking*. PP further stated that, the total plot area of the project is 9309.94Sq. mt. having total construction area 193926.87 Sq. mt. (FSI 50273.62 Sq.mt+ NON FSI- 143653.25 Sq.mt)and the building configuration is as follow-

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

It is noted that, Project has received Environmental clearance vide letter dated 10.04.2014. It is also noted that the project earlier considered in 81st SEAC-2 Meeting held on 10-12-2018 & deferred with observations namely 1) Committee noted that, the project under consideration is with configuration of 7 Basements. While as per earlier EC dated 10/8/2009, configuration of the project was a five star hotel (G+82) & (G+2- Shopping attached). Committee is of opinion that PP & Environment consultant have purposely not informed about building configuration mentioned in earlier EC and construction carried out. PP to submit & upload earlier EC, approved plans, permission from local body, IoD/CC, statement showing building configuration mentioned in EC & MCZMA clearance and actual construction carried out at the site. 2) to submit the copy of MCZMA Clearance. 3) to submit HRC NoC. 4) to submit Geotechnical, geohydrological reports along with subsoil water flow pattern, its impact on subsoil strata, constructed structure & 300- 500 mt from IIT-Earth science. 5) to ensure that maximum treated water should be recycled. PP can explore the option to use excess 105 m3 treated water in nearby public gardens. 6) to provide PV Solar pannel 10 % of net demand against 1.33% as promised. 7) to provide PV-Solar pannel on library of schools in rural areas. Name of the schools will be given to PP by Environment Department. 8) to explain with design in detail that how fire tender reaches in refuge (of building near Bhai jivanji lane) 20 mt from road. Also PP to submit report from fire expert. 9) to submit & upload the design & cross section of STPs indicating 40% area open to sky for adequate ventilation. 10) to submit differences between earlier plan approved as per EC & proposed changes in the plans.

The project proposal was discussed on the basis of presentation made and documents submitted by the

proponent. It is noted that PP has not complied with the observations made in the last meeting satisfactorily including how number of basements now proposed will be accommodated.

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DECISION OF SEAC

Committee decided to visit the project site to access the situation on site considering substantial increase in proposed basements before appraising the project further.

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

Specific Conditions by SEAC:

- 1) PP to submit dated Architect certificate addressing to committee regarding building wise construction done on site as per EC accorded.
- 2) As agreed by PP, Energy Saving by Solar energy is 4% of total proposed energy consumption.
- 3) PP to submit the Copy of building plan submitted to MoEF
- 4) Copy of approved plan from MCGM as per EC 2007
- 5) Copies of all CCs issued from time to time
- 6) PP to obtain CFO and HRC NoCs

FINAL RECOMMENDATION

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

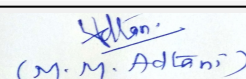
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SEAC-II)

Agenda of 98th Day-1 SEAC-2 meeting held on 3rd -4th May, 2019

SEAC Meeting number: 98th Meeting Date May 3, 2019

Subject: Environment Clearance for 8(a) Building & construction projects, B2 Category

Is a Violation Case: No

1.Name of Project	"Harilal Bhagwati Hospital"
2.Type of institution	Semi Government
3.Name of Project Proponent	Municipal Corporation of Greater Mumbai
4.Name of Consultant	Green circle, Inc.
5.Type of project	Hospital project (Building & construction projects)
6.New project/expansion in existing project/modernization/diversification in existing project	Redevelopment Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, EC has been obtained for existing project
8.Location of the project	C. T. S. No. 245, Village Mandapeshwar & C. T. S. No. 1409, 1412, 1413 & 1414 of Village Eksar at Borivali West, Mumbai
9.Taluka	Mumbai
10.Village	Mandapeshwar and Eksar
11.Area of the project	MCGM
12.IOD/IOA/Concession/Plan Approval Number	Layout approved by B.P. (spl. cell)
	IOD/IOA/Concession/Plan Approval Number: CHE/31/B.P.(Spl. Cell)/ARC/337 Dt.22 NOV 2016
	Approved Built-up Area: 95266.00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	22,276.59 m ²
16.Deductions	1,771.17 m ²
17.Net Plot area	20,505.42
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 69,253.03
	b) Non FSI area (sq. m.): 26,012.97
	c) Total BUA area (sq. m.): 95266.00
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 (m ²)	10, 048
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	56 %
21.Estimated cost of the project	3980000000

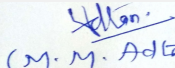
22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Main hospital building	Basement + Ground + 10 Floors	44.95
2	Services buildings	Ground + 1	7
3	Existing Nurses, Training Centre	Basement + Ground + 10 Floors	44.95
4	Coroners Court	Ground + 1	7
5	Electric Substation	-	-


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23.Number of tenants and shops	Nos. of Beds. = 868
24.Number of expected residents / users	13,020 Nos.
25.Tenant density per hectare	250/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))	9 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Proposed project is Redevelopment Project. There is existing hospital building.
30.Details of the demolition with disposal (If applicable)	Existing Building to be demolished and the Demolition waste will be handed over to Contractor for Disposal.

31.Production Details

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

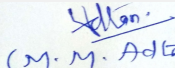
32.Total Water Requirement

Dry season:	Source of water	Tanker Water
	Fresh water (CMD):	514 m3/day
	Recycled water - Flushing (CMD):	195 m3/day
	Recycled water - Gardening (CMD):	26 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	905 m3/day
	Fire fighting - Underground water tank(CMD):	250 m3
	Fire fighting - Overhead water tank(CMD):	210 m3
	Excess treated water	190.5 m3/day


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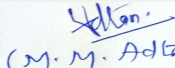

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Wet season:	Source of water	Tanker Water								
	Fresh water (CMD):	514 m3/day								
	Recycled water - Flushing (CMD):	195 m3/day								
	Recycled water - Gardening (CMD):	0								
	Swimming pool make up (Cum):	NA								
	Total Water Requirement (CMD) :	879 m3/day								
	Fire fighting - Underground water tank(CMD):	250 m3								
	Fire fighting - Overhead water tank(CMD):	210 m3								
	Excess treated water	216.5 m3/day								
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:	As per geo- hydrological survey report								
	Size and no of RWH tank(s) and Quantity:	1 no. of 250 m3								
	Location of the RWH tank(s):	Below Ground								
	Quantity of recharge pits:	07 Nos.								
	Size of recharge pits :	3 m x 3 m x 1.5 m								
	Budgetary allocation (Capital cost) :	Rs.18 Lakhs								
	Budgetary allocation (O & M cost) :	Rs.1.45 Lakhs/Annum								
	Details of UGT tanks if any :	i. Domestic Water tank Capacity: 69.44 m3 ii. Drinking Water tank Capacity: 47.74 m3 iii. Flushing tank Capacity: 32.55 m3 iv. U. G. Fire tank capacity: 250 m3								


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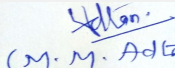

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35.Storm water drainage	Natural water drainage pattern:	As per gravity
	Quantity of storm water:	0.754 cum/sec
	Size of SWD:	750 mm
Sewage and Waste water	Sewage generation in KLD:	558
	STP technology:	MBR technology
	Capacity of STP (CMD):	1 No. of 575 m3/day
	Location & area of the STP:	Below Ground
	Budgetary allocation (Capital cost):	Rs. 240 Lakhs
	Budgetary allocation (O & M cost):	Rs.19.2 lakhs / Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	35 Kg/day
	Disposal of the construction waste debris:	Construction debris, Waste concrete and broken bricks will be utilized in low-land leveling, secondary concrete, below roads. Some quantity of Excavation soil will be use for backfilling and remaining will be hand over to authorized vendor.
Waste generation in the operation Phase:	Dry waste:	1,985 kg/day
	Wet waste:	1,324 kg/day
	Hazardous waste:	spent oil or oil grease for DG sets paints etc.
	Biomedical waste (If applicable):	1945 kg/day
	STP Sludge (Dry sludge):	28 kg/day
	Others if any:	NA
Mode of Disposal of waste:	Dry waste:	Handed over to MCGM for further handling and disposal.
	Wet waste:	Handed over to MCGM for further handling and disposal.
	Hazardous waste:	Handed over to authorized Vendor
	Biomedical waste (If applicable):	The biomedical waste will be collected as per different Categories in the different color coded bags and handed over to MCGM as per the Biomedical Waste Handling Rule.
	STP Sludge (Dry sludge):	Will be used as manure for gardening
	Others if any:	NA
Area requirement:	Location(s):	Near DG room
	Area for the storage of waste & other material:	For Bio-medical waste: 9 Sq.m, For Dry Waste: 9 Sq. m & For Wet waste: 9 Sq. m
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA
37.Effluent Charecterestics		


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Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.0 - 8.5	5.5 - 9.0	6.5 - 9.0
2	Oil & Grease	mg/L	10 - 20	< 10	10
3	BOD	mg/L	200 - 250	< 10	10
4	COD	mg/L	350 - 450	< 60	50
5	TSS	mg/L	150 - 200	< 10	20
Amount of effluent generation (CMD):		85			
Capacity of the ETP:		145			
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		ASP			
Disposal of the ETP sludge		Handed over to authorized vendor for disposal			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used oil	5.1	Litres/year	0	200	200	Handed over to authorized Vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set: 3 No. x 2000 KVA	240 Litres/hr	3 Nos.	35	0.150	180 oC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	0	240 Litres/hr	240 Litres/hr

41.Source of Fuel

Local Market

42.Mode of Transportation of fuel to site

Road Transport

43.Green Belt Development

	Total RG area :	5,193.97 m ²
	No of trees to be cut :	31
	Number of trees to be planted :	Nos. of existing trees: 162, Nos. of trees to be retained: 79 & Nos. of trees to be transplanted: 52
	List of proposed native trees :	Karanja, Badam, Shevga, Ashoka etc.
	Timeline for completion of plantation :	Two 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
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1	Samanea saman	Rain tree	1	The root decoction is used in hot baths for stomach cancer in Venezuela. Rain Tree is a traditional remedy for colds, diarrhea, headache, intestinal ailments and stomachache
2	Tamarindus indica	Tamarind Tree	3	The tamarind tree produces edible, pod-like fruit which is used extensively in cuisines around the world
3	Peltophorum pterocarpum	Paltophorum Tree	5	The tree is widely grown in tropical regions as an ornamental tree, particularly in India the foliage is used as a fodder crop.
4	Saraca asoca	Ashoka Tree	47	Capsules and ointments prepared from Ashok tree can be used as a natural supplement of great benefit to treat irritations and burning sensation in the skin and complexion
5	Mangifera indica	Mango Tree	25	The tender leaves of the mango tree are considered useful in diabetes
6	Caryota urens	Fishtail Tree	1	Solitary fishtail palm is cultivated both for its products and as an ornamental.
7	Caryota urens	Fishtail Tree	1	Solitary fishtail palm is cultivated both for its products and as an ornamental.
8	-	Sandpaper Tree	1	Used for medicinal purpose
9	Cocos nucifera	Coconut Tree	10	Every part has a use, including the fruits, wood, and leaves
10	Pithecellobium dulce	Vilayti Chinch Tree	1	Used as food & Medicine
11	Pongamia pinnata	Karanja Tree	4	Karanja is an important Ayurvedic medicine, used predominantly in skin diseases
12	Michelia champaca	Chaffa Tree	1	Used for medicinal purpose
13	Moringa oleifera	Shevga Tree	1	Used for medicinal purpose
14	Artocarpus heterophyllus	Jackfruit Tree	8	The leaves of jackfruit tree are useful for curing fever, boils and skin diseases. When heated, they prove useful in curing wounds
15	Syzygium cumini	Jamun Tree	3	Used for medicinal purpose
16	Cocos nucifera	Taad Tree	3	Providing shade
17	Terminalia catap	Badam Tree	4	Used as food & Medicine
18	Ficus racemosa	Umber Tree	2	Used for medicinal purpose
19	Ficus religiosa	Peepal Tree	2	Used for medicinal purpose applied in eyes for eye pain
20	Psidium guajava	Peru Tree	2	Used as a food & Medicinal purpose
21	-	Jungali Grewia Tree	1	Used for Medicinal purpose
22	Manilkara zapota	Chiku Tree	1	Used as a food & Medicinal purpose

23	Trema orientalis	Trema Tree	1	The wood is suitable for paper and pulp production
24	Trema orientalis	Trema Tree	1	The wood is suitable for paper and pulp production
25	Latania loddigesii	Fan palm Tree	1	Providing shade
26	Araucaria columnaris	X- Mas Tree	1	-

45.Total quantity of plants on ground

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

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

47.Energy

Power requirement:	Source of power supply :	Tata Power
	During Construction Phase: (Demand Load)	150 KW
	DG set as Power back-up during construction phase	1 No. x 200 KW
	During Operation phase (Connected load):	2,938.48 KW
	During Operation phase (Demand load):	898.54 KW
	Transformer:	Outdoor type with OLTC & RTCC, Dry type transformer having 11 KV/0.415 KV voltage levels low loss type with rating of 2000 KVA
	DG set as Power back-up during operation phase:	3 Nos. x 2000 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. Use of LED fixtures in all aras of hospital compared to T8 / CFL lamps
2. Use of Lamp
3. Use of timer sensor
4. Use of VFD driven hydropneumatic plumbing systems,LIFTS and HVAC @ 25% minimum
5. capacitors for common area load

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	By using LED fixtures, time sensor, VFD driven hydropneumatic plumbing systems, capacitors	27.47 %

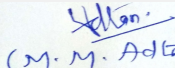
50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
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Wastewater: Sewage generation from users & effluent from Lab and washing	Not applicable	STP for sewage treatment & ETP for effluent from lab & washing
Air emission: DG set	Not applicable	Adequate stack height
Solid waste	Not applicable	Proper collection, segregation, handling, storage and disposal facility
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 60 Lakhs
	O & M cost:	Rs. 3 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust generation	Water for Dust Suppression	5
2	Workers/labourers	Site Sanitation & Safety	8
3	Air, water, noise	Environmental Monitoring	5
4	-	Disinfection	4
5	All relevant parameters	Health Check up	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	Wastewater	STP Cost	240	19.2
2	Solid waste	Solid Waste Management	8.0	2.0
3	Green area	Green Belt development	40.0	2.0
4	Groundwater recharge	Rain water harvesting	18	1.45
5	Energy	Energy Efficient equipments	60	3.0
6	Air, water, noise, soil	Environmental monitoring	-	3.0

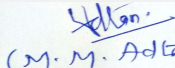
51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

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
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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:	5 Nos.					
Parking details:	Number and area of basement:	1 No. of 7,180 m ²					
	Number and area of podia:	NA					
	Total Parking area:	4,200 Sq. m					
	Area per car:	28.76 Sq. m					
	Area per car:	28.76 Sq. m					
	Number of 2-Wheelers as approved by competent authority:	NA					
	Number of 4-Wheelers as approved by competent authority:	146 Nos.					
	Public Transport:	Bus stop & Auto Rickshaw stand near Entry Gate					
	Width of all Internal roads (m):	6 m					
	CRZ/ RRZ clearance obtain, if any:	NA					
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA					
	Category as per schedule of EIA Notification sheet	'B' schedule 8 (a)					
	Court cases pending if any	NA					
	Other Relevant Informations	NA					
	Have you previously submitted Application online on MOEF Website.	Yes					
	Date of online submission	16-04-2016					
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS							

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

SEAC-AGENDA-0000000261


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PP was present during the meeting along with environmental consultant M/s. Green circle, Inc.

PP informed that, the project under consideration is *proposed Redevelopment Hospital project (Building & construction projects) project "River wood Park" project covered under PMAY. PP further stated that, the total plot area of the project is 22,276.59 Sq.mt. having total construction area 95266.00 Sq.mt. (FSI - 69,253.03 sq.mt + NON FSI- 26,012.97sq.mt) and the building configuration is as follow-*

Building Name & number	Number of floors	Height (Mtrs)
Main hospital building	Basement + Ground + 10 Floors	44.95
Services buildings	Ground + 1	7
Existing Nurses, Training Centre	Basement + Ground + 10 Floors	44.95
Coroners Court	Ground + 1	7
Electric Substation	--	--

It is noted that the project earlier considered in 92 (Day 2) SEAC-2 Meeting held on 15-03-2019) & deferred with observations namely 1) to revise the STP capacity in CS. 2) to upload the copy of MCGM letter showing the dilapidated condition of "C-1" category of the buildings. 3) to submit the copy of work order & debris management plan which was given to the contractor due to demolition of dilapidated building. 4) to submit the calculation for energy saving due to solar energy. 5) to provide the STP on ground & to submit the revised design for the same. 6) to upload the clear fire tender movement plan clearly showing the width of 6mt of drive way with 9mt turning radius. 7) to provide the clear RG as per DCR & it should be on mother earth. Accordingly PP submitted the compliance which was taken on record. Further to this PP stated that, the existing buildings were declared as dilapidated buildings of category C1, therefore the same has been demolished by PP

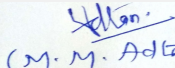
The project proposal was discussed on the basis of presentation made and documents submitted by the proponent. All issues related to environment, including air, water, land, soil, ecology and biodiversity and social aspects were discussed. Committee noted that the project is under 8a (B2) category of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

DECISION OF SEAC


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

Specific Conditions by SEAC:

- 1) PP to upload the energy saving calculation indicating the % of energy saving by renewable energy.
- 2) PP to revise the CS with respect to STP & RG area component.
- 3) During presentation, PP informed that, proposed DP road is deleted from the above said plot therefore available additional land is proposed to be used for STP & part of RG area.
- 4) The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.

FINAL RECOMMENDATION

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

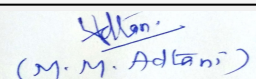
SEAC-AGENDA-0000000267



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Agenda of 98th Day-1 SEAC-2 meeting held on 3rd -4th May, 2019

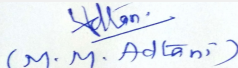
SEAC Meeting number: 98th Meeting Date May 3, 2019

Subject: Environment Clearance for Environment Clearance for Slum Rehabilitation Scheme

Is a Violation Case: No

1.Name of Project	Slum Rehabilitation Scheme at Sion Koliwada, Mumbai
2.Type of institution	Private
3.Name of Project Proponent	M/s. SEJAL SHAKTI REALTORS LLP
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	SRA scheme
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing C.S. No. 6(pt.), 17(pt.) to 21(pt.) of Salt Pan Division & C.S. No. 12(pt.) of Sion - Division, Mumbai City at Raoli Camp, Kokari Agar, Sardar Nagar No. 4, Sion Koliwada, Mumbai 400 037
9.Taluka	Sion
10.Village	Sion Koliwada
Correspondence Name:	M/s. SEJAL SHAKTI REALTORS LLP
Room Number:	173/174
Floor:	3rd floor
Building Name:	Sejal Encasa
Road/Street Name:	S.V. Road
Locality:	Opp. Bata Showroom, Kandivali (W)
City:	Mumbai- 400 067
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	Received IOA for Rehab building 3: SRA/ ENG/ F-N/ STGOVT/ 0064/ 20140719/ AP/ RB - 3
	IOD/IOA/Concession/Plan Approval Number: Received IOA for Rehab building 3: SRA/ ENG/ F-N/ STGOVT/ 0064/ 20140719/ AP/ RB - 3
	Approved Built-up Area: 61622.74
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received LOI from Slum Rehabilitation Authority dated 17.11.2016
15.Total Plot Area (sq. m.)	26,376.38
16.Deductions	7,617.52
17.Net Plot area	18,758.86
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 1,29,418.29 (Including fungible)
	b) Non FSI area (sq. m.): 1,32,891.11
	c) Total BUA area (sq. m.): 262309.40
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 61622.74
	Approved Non FSI area (sq. m.): Shall be submitted
	Date of Approval: 24-11-2017
19.Total ground coverage (m2)	10827.01
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	57.7%
21.Estimated cost of the project	9900000000

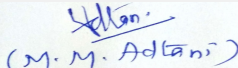
22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehabilitation	--	--
2	Building 1	Ground + 41 Floors	118.80
3	Building 2	Ground + 41 Floors	118.80
4	Building 3	Ground + 41 Floors	118.80
5	Sale	--	--
6	Tower 1	2 Basement (Parking) + Ground (Parking & Club House) + 1 floor (Parking) to 39 floors	127.23
7	Tower 2	2 Basement (Parking) + Ground (Parking & Club House) + 1 floor (Parking) to 39 floors	127.23
8	Tower 3	2 Basement (Parking) + Ground (Parking & Club House) + 1 floor (Parking) to 39 floors	127.23

23.Number of tenants and shops	Rehabilitation: Building 1,2 & 3 :- Total Flats: 1634 Nos. R/C: 1 No. Shops: 69 Nos. Balwadi: 18 Nos. Welfare Centre: 18 Nos. Society office: 17 Nos. Religious Structures: 7 Nos. Sale: Tower 1,2 & 3 :- Flats : 802
24.Number of expected residents / users	11323
25.Tenant density per hectare	1303/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))	It is connected by 27.40 mt. wide D.P. Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum turning radius (outer to outer) of 15 mt. is available for fire tender movement
29.Existing structure (s) if any	Existing slums have been partly demolished and remaining shall be demolished
30.Details of the demolition with disposal (If applicable)	Demolition debris shall be partly reused and remaining shall be disposed to Authorized landfill site

31.Production Details

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

32.Total Water Requirement

Dry season:	Source of water	M.C.G.M/ Tanker water for Swimming pool make up
	Fresh water (CMD):	983 KLD
	Recycled water - Flushing (CMD):	496 KLD
	Recycled water - Gardening (CMD):	08 KLD
	Swimming pool make up (Cum):	08 KLD
	Total Water Requirement (CMD) :	1495 KLD
	Fire fighting - Underground water tank(CMD):	Rehabilitation: 400 KL , Sale :521 KL
	Fire fighting - Overhead water tank(CMD):	Rehabilitation: 180 KL , Sale :75 KL
	Excess treated water	649 KLD
Wet season:	Source of water	M.C.G.M/ Tanker water for Swimming pool make up/ Partly by RWH
	Fresh water (CMD):	983 KLD
	Recycled water - Flushing (CMD):	496 KLD
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	08 KLD
	Total Water Requirement (CMD) :	1487 KLD
	Fire fighting - Underground water tank(CMD):	Rehabilitation: 400 KL , Sale :521 KL
	Fire fighting - Overhead water tank(CMD):	Rehabilitation: 180 KL , Sale :75 KL
	Excess treated water	657 KLD
Details of Swimming pool (If any)	Swimming pool volume: 540 m3 Swimming pool make up water requirement: 8 KL	

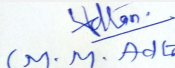
33.Details of Total water consumed

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


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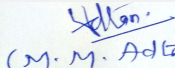

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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	2.4 mt. to 5.3 mt. below ground surface
	Size and no of RWH tank(s) and Quantity:	Rehabilitation: 3 RWH tank of total capacity 150 KL ; Sale: 3 RWH tanks of total capacity 150 KL
	Location of the RWH tank(s):	Rehabilitation: Underground ; Sale: Basement
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	Rs. 48.00 Lacs
	Budgetary allocation (O & M cost) :	Rs.1.61 Lacs/annum
	Details of UGT tanks if any :	Rehabilitation: Underground Sale: Basement
35.Storm water drainage	Natural water drainage pattern:	The storm water collected through the storm water drains of adequate capacity will be discharged in to the municipal SWD.
	Quantity of storm water:	0.73 m3/sec
	Size of SWD:	500 mm wide storm water channel with slope 1:250
Sewage and Waste water	Sewage generation in KLD:	Rehabilitation: 788 KLD ;Sale: 494 KLD
	STP technology:	Moving Bed Bio Reactor (MBBR)
	Capacity of STP (CMD):	Rehabilitation: STP of capacity 850 KL and Sale: STP of capacity 550 KL
	Location & area of the STP:	Rehabilitation: underground (Area-650 Sq.mt.) and Sale:Underground (Area- 450 Sq.mt.)
	Budgetary allocation (Capital cost):	Rs. 436.00 Lacs
	Budgetary allocation (O & M cost):	Rs. 16.25 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Excavated material shall be partly reused on site for filling and remaining will be disposed of at designated location approved by M.C.G.M.
	Disposal of the construction waste debris:	Construction waste material shall be partly reused/ recycled and remaining shall be disposed to the authorized land fill site
Waste generation in the operation Phase:	Dry waste:	2939 kg/day
	Wet waste:	1959 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	192 kg/day
	Others if any:	Not Applicable


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Mode of Disposal of waste:	Dry waste:	To authorized recyclers
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	Not Applicable
Area requirement:	Location(s):	Will be submitted
	Area for the storage of waste & other material:	Will be submitted
	Area for machinery:	Will be submitted
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 18.00 Lacs
	O & M cost:	Rs. 7.21 Lacs/annum

37. Effluent Characteristics

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

38. Hazardous Waste Details

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

39. Stacks emission Details

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

40. Details of Fuel to be used

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

41. Source of Fuel Not applicable

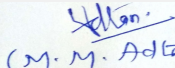
42. Mode of Transportation of fuel to site Not applicable

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43.Green Belt Development	Total RG area :	1500.71 Sq. mt.
	No of trees to be cut :	7 nos. of trees, shall be retained/ transplanted
	Number of trees to be planted :	238 Nos.
	List of proposed native trees :	As shown below
	Timeline for completion of plantation :	At the time of completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Aillanthus excelsa	Maharukh	16	Powerful fever-cure and tonic.
2	Azadirachta indica	Neem	35	Fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation
3	Albizia lebbeck	Shirish	24	Large Shady tree, uses include forage, medicine and wood.
4	Putranjiva roxburghii	Putranjiva	23	Evergreen tree, an attractive tree with pendant branches, it is grown as an ornamental in gardens.
5	Cassia fistula	Bahava	Ground: 26 ; Podium: 26	Attracts bees and butterflies for pollination.
6	Saraca asoca	Sita Ashok	21	Sacred trees of India, and one of the most fascinating flowers essence
7	Nyctanthes arbortristis	Night-flowering jasmine	Ground: 15 ; Podium: 15	The plant is particularly valued for its flowers which are used in traditional medicine, as a dye and a source of an essential oil.
8	Bauhinia	Kanchan	Ground: 9 ; Podium: 16	A decoration prepared from its bark is a good herbal remedy for treating skin Ailments like rashes, pimples
9	Mimusops elengi	Bakul	12	The flowers are very aromatic and retain their fragrance for a long time after being dried

45.Total quantity of plants on ground

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

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

47.Energy

Power requirement:	Source of power supply :	BEST/TATA Power
	During Construction Phase: (Demand Load)	400 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	Rehabilitation: 10691; KW Sale: 11756 KW
	During Operation phase (Demand load):	Rehabilitation: 2558 KW ; Sale: 3450 KW
	Transformer:	5 Nos. of total capacity 1000 KVA subject to be confirmed by Local electricity board.
	DG set as Power back-up during operation phase:	Rehabilitation: 1 DG set of capacity 750 kVA and Sale: 2 Nos. DG set of capacity 625 kVA each
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	HTL passing through the plot

48. Energy saving by non-conventional method:

- Use of T-5 Fittings (28 w) and Electronic ballasts instead of Fluorescent Light fittings (40w) and copper ballasts
- Use of Group controls and Variable speed drives.
- Daylight based controls
- Use of LED light fitting
- Use of EFF-1 motors for fans & pumps
- Solar PV panels to feed the common area lighting of the building

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy saving	Rehabilitation: 21 % and Sale: 22 %
2	Energy saving due to renewable energy	Rehabilitation: 3.5 % and Sale: 3.7 %

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	STP
Solid waste	Not applicable	Organic Waste Convertor

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 74.93 Lacs
	O & M cost:	Rs. 0.75 Lacs/annum

51. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

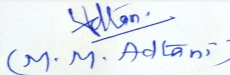
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	--	--	--
2	Air Environment	Water for Dust Suppression	7.20



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3	Air Environment	Air and Noise Monitoring: On site Sensors	12.50
4	Air Environment	Air and Noise Monitoring: By outside MoEF & CC Approved Laboratory	1.10
5	Water Environment	Drinking water analysis	0.15
6	Land Environment	Site Sanitation	10.00
7	Health & Hygiene	Disinfection- Pest Control	6.00
8	Health & Hygiene	Health Check-up of workers	90.00
9	Cost towards Disaster Management	--	575.00

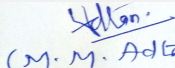
b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	AIR & NOISE ENVIRONMENT - Ambient Air quality & Noise Monitoring:	On site sensors	No set up cost is involved as already considered Construction Phase	0.50
2	AIR & NOISE ENVIRONMENT - Ambient Air quality & Noise Monitoring:	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.22
3	AIR & NOISE ENVIRONMENT - Cost for DG Stack Exhaust Monitoring	2 nos. of stacks	No set up cost is involved	0.10
4	AIR & NOISE ENVIRONMENT - Cost for Plantation	RG area: 1500.71 Sq. mt.	8.25	1.20
5	WATER ENVIRONMENT - Waste water treatment	Cost for sewage Treatment Plants	400.00	14.20
6	WATER ENVIRONMENT - Cost for water & waste water Monitoring	On site sensors	36.00	2.00
7	WATER ENVIRONMENT - Cost for water & waste water Monitoring	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.05
8	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for RWH tanks	31.00	1.55
9	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for Rain Water collected in tanks	18.00	0.06


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10	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.05
11	LAND ENVIRONMENT - Solid Waste Management	Cost for Treatment of biodegradable garbage in OWC	18.00	7.05
12	LAND ENVIRONMENT - Solid Waste Management	Environmental Monitoring	No set up cost is involved	0.16
13	ENERGY CONSERVATION - Use of renewable energy	Solar panels	74.93	0.75
14	Cost towards disaster management	--	830.00	83.00

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

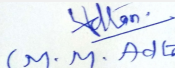
53.Traffic Management

Nos. of the junction to the main road & design of confluence:	One Entry & Exit
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Parking details:	Number and area of basement:	Sale Building: 2 Basement (Total area: 24529.30 Sq. mt.)
	Number and area of podia:	Not Applicable
	Total Parking area:	Shall be submitted
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	264 Nos.
	Number of 4-Wheelers as approved by competent authority:	1055 Nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Min 6.0 mt.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 (b) B1
	Court cases pending if any	Not Applicable
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-10-2018

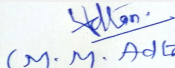
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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


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

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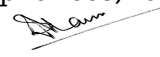
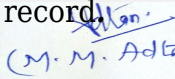
Representative of PP Mr. Dhiraj Gada was present during the meeting along with environmental consultant M/s. Ultra-Tech.

PP informed that, the project under consideration is *proposed new SRA scheme Project*. PP further stated that, the total plot area of the project is 26,376.38 Sq.mt having total construction area 262309.40 Sq.mt.(FSI -1,29,418.29Sq. mt. + NON FSI- 1,32,891.11 Sq. mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Rehabilitation	--	--
Building 1	Ground + 41 Floors	118.80
Building 2	Ground + 41 Floors	118.80
Building 3	Ground + 41 Floors	118.80
Sale	--	--
Tower 1	2 Basement (Parking) + round (Parking & Club House) + floor (Parking) to 39 floors	127.23
Tower 2	2 Basement (Parking) + round (Parking & Club House) + 1 floor (Parking) to 39 floors	127.23
Tower 3	2 Basement (Parking) + round (Parking & Club House) + 1 floor (Parking) to 39 floors	127.23

It is noted that the project earlier considered in 80th SEAC-2 Meeting held on 29-11-2018 & ToR granted for the same. further to this PP stated that, due to new DCPR 2034, there is change in planning therefore PP requested to amendment in accorded ToR.

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

compliance, form 1, 1A, presentation & plans submitted are taken on the record.			
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DECISION OF SEAC

After discussion, Committee approved the ToR with following observations & additions, which is valid upto 3/4/2022. EIA will be apprised as & when submitted. Meanwhile PP should comply following points.

Specific Conditions by SEAC:

- 1) PP to submit compliance of Construction & Demolition waste management
- 2) PP to submit the contour for site before & after levelling.
- 3) PP to submit the NoC from Monorail Corporation.
- 4) PP to ensure that there is a buffer zone near monorail route.
- 5) PP to submit the plan to reduce Noise pollution.
- 6) PP to submit HRC NoC.
- 7) PP to ensure that, no nalla should be diverted. PP to submit the nalla remarks
- 8) PP to submit the DP remarks.
- 9) PP agreed that, they will construct Storm water drain & Sewer line and will be connect to respective lines laid by local body.
- 10) PP to submit Contour and slope analysis super imposed with storm water drain, sewer line map in the project and 500 mtr around the project.
- 11) PP to submit & upload wind analysis, shadow analysis, traffic analysis, light and ventilation analysis and measures to reduce heat island effect.
- 12) PP to ensure that area under high tension line should be kept open & maintain as additional green area.
- 13) PP to submit the compensatory plantation plan.
- 14) PP to ensure that maximum treated water should be recycled.
- 15) PP shall operate and maintain Environmental Management Facilities (EMF) including STP & fire- fighting system for 10 years after giving possession and shall also generate corpus fund for next 5 years.
- 16) PP to submit demolition & debris disposal /waste management plan.
- 17) PP to submit project specific DMP.
- 18) PP to ensure that RG required is as per the norms and should be on Mother Earth.
- 19) PP to submit CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project or Environment Department may direct PP to undertake CER work in identified area.
- 20) PP to also refer standard ToR published by MoEF vide order dated 10/04/15 in addition to above
- 21) PP to calculate the radiations (electro-magnetic field) of high tension line & submit the comparisons with standards

FINAL RECOMMENDATION

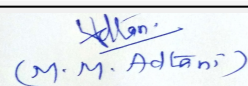
The Committee decided to Grant ToR subject to the above observations, PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.



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**Shri M.M.Adtani (Chairman
SEAC-II)**

Agenda of 98th Day-1 SEAC-2 meeting held on 3rd -4th May, 2019

SEAC Meeting number: 98th Meeting Date May 3, 2019

Subject: Environment Clearance for Application for Environmental Clearance for Integrated Township Project at village Shirse, Tal. Karjat, Dist- Raigad, State -Maharashtra

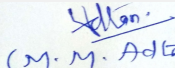
Is a Violation Case: No

1.Name of Project	Integrated Township Project
2.Type of institution	Private
3.Name of Project Proponent	M/s. R R Kalyankar Constructions Pvt. Ltd.
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	Integrated Township 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	Survey No. 41, Hissa No. 2, 3, 5, Survey No.42, Hissa No. 1A, 1B, 1C, 2, 4, 5, 6A, 7B, 8, 9, 10, 11, 12, 13A, 13B, 14, 15, Survey No. 43, Hissa No. 3A, 3B, 4, 5, Survey No.44 , Hissa No. 1A, 1B, 1C, 1D, 3, Survey No.45, Hissa No. 3A, 3B, Survey No.50, Hissa No.1(p), Survey No. 54, Hissa No. 1, 2, 3,4 , 5, 6, 7, 9, 10, 11, Survey No. 55, Hissa No.1, 2, 3(p), 4, 5, 6, 7, 8, 9, 10(p), 11, 12, 13 and Survey No. 60, Hissa No.1, village Shirse, Tal. Karjat, Dist- Raigad, State -Maharashtra.
9.Taluka	Karjat
10.Village	Shirse
Correspondence Name:	M/s. R R Kalyankar Constructions Pvt. Ltd.
Room Number:	803
Floor:	Not Applicable
Building Name:	Cosmos
Road/Street Name:	Sector 11
Locality:	CBD Belapur (E)
City:	Navi Mumbai
11.Area of the project	Joint Director / ADTP Raigad, Town Planning
12.IOD/IOA/Concession/Plan Approval Number	Received Letter of Intent (LOI) from Office of Collector and District Magistrate, Alibaug District Raigad dt. 25.04.2017 IOD/IOA/Concession/Plan Approval Number: Govt. of Maharashtra/LNA1(B)/460218/2017 Approved Built-up Area: 798073.18
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received Location Clearance (LC) from Urban Development Department, Mantralaya on 11th September, 2014 in respect of an area which includes lands admeasuring about 46.94 Ha. Renewal of location clearance received dt. 3rd June, 2017. Letter of Intent (LOI) is also received from Office of Collector and District Magistrate, Alibaug District Raigad dt. 25.04.2017
15.Total Plot Area (sq. m.)	4, 69,454.81 Sq.mt.
16.Deductions	1,852.98 Sq.mt.
17.Net Plot area	4,67,601.83 Sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 7,97,865.60 Sq. mt. b) Non FSI area (sq. m.): 3,81,004.21 Sq. mt. c) Total BUA area (sq. m.): 1178869.81
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 7,98,073.18 sq.mt. Approved Non FSI area (sq. m.): 3, 81,004.21 sq.mt. Date of Approval: 22-01-2019
19.Total ground coverage (m2)	1, 14,549.44 Sq.mt.


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20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24 %
21.Estimated cost of the project	18880000000

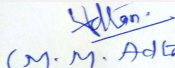
22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Phase 1- Residential Building No. 1	Ground + 5 Podia + 30 Upper Floors	102.60
2	Phase 1- Residential Building No. 2	Ground + 5 Podia + 27 Upper Floors	94.05
3	Phase 1- Residential Building No. 3	Ground + 4 Podia + 22 Upper Floors	77.70
4	Phase 1- Residential Building No. 4	Ground + 2 Podia + 22 Upper Floors	66.00
5	Phase 1- Residential Building No. 5	Ground + 2 Podia + 22 Upper Floors	65.55
6	Phase 1- Residential Building No. 6	Ground + 3 Podia + 22 Upper Floors	74.10
7	Phase 1- Residential Building No. 18	Ground + 2 Podia + 25 Upper Floors	76.95
8	Phase 1- Residential Building No. 19	Ground + 4 Podia + 24 Upper Floors	83.40
9	Phase 1- Social Housing LIG Building	Ground + 3 Podia + 25 Upper floors	83.40
10	Phase 1- Economical Weaker Section (EWS) scheme	Ground + 4 Podia + 24 Upper Floors	83.40
11	Phase 1 - Social Housing Community Centre	--	--
12	Phase 1- Commercial Centre 2	Lower Ground + Ground + 16 Upper Floor	56.85
13	Phase 1- School 1	Ground+ 6 Upper Floors	25.65
14	Phase 1- Police Station	Ground Floors	3.30
15	Phase 1- Fire Station 1	Ground + 1 Floor	6.60
16	Phase 1 - Auto & Bus Depot. 1	Ground Floor	--
17	Phase 1 - Open Market 1, 2 & 5	Ground Floor	--
18	Phase 1 - Multi-level Parking Lot	Ground + 5 Upper Floors	17.40
19	Phase 1 - Security Cabin	Ground Floor	--
20	Phase 1 - City Management Office	Ground + 1 Floor	6.60
21	Phase 2 - Residential Building No. 7	Ground + 3 Podia + 30 Upper Floors	96.90
22	Phase 2 - Residential Building No. 8	Ground + 3 Podia + 28 Upper Floors	91.20
23	Phase 2 - Residential Building No. 9	Ground + 2 Podia + 22 Upper Floors	65.55
24	Phase 2 - Residential Building No. 10	Ground + 4 Podia + 22 Upper Floors	71.25
25	Phase 2 - Club House	Ground + 4 Floors	18.60
26	Phase 2 - Villa Type A	Ground + 1 Floor	7.20
27	Phase 2 - Villa Type B1	Lower Ground + Ground	7.20


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28	Phase 2 - Villa Type C	Ground + 1 Floor	7.20
29	Phase 2 - Hospital	Ground + 7 Upper Floors	26.55
30	Phase 2 - School 2	Ground + 3 Floors	15.15
31	Phase 2 - Open Market 4	Ground Floor	--
32	Phase 2 - Temple	Ground Floor	--
33	Phase 3 - Residential Building No.11	Ground + 4 Podia + 30 Upper Floors	91.20
34	Phase 3 - Residential Building No.12	Ground + 4 Podia + 22 Upper Floors	76.95
35	Phase 3 - Residential Building No.13	Ground + 4 Podia + 30 Upper Floors	88.25
36	Phase 3 - Residential Building No.14	Ground + 5 Podia + 22 Upper Floors	79.80
37	Phase 3 - Villa Type B1	Lower Ground + Ground	7.20
38	Phase 3 - Villa Type C	Ground + 1 Floor	7.20
39	Phase 3 - Community Centre	Lower Ground + Ground + 14 Upper Floors	56.35
40	Phase 3 - Open Market 3	Ground Floor	--
41	Phase 4 - Residential Building No.15	Ground + 6 Podia + 28 Upper Floors	99.75
42	Phase 4 - Residential Building No.16	Ground + 4 Podia + 22 Upper Floors	65.55
43	Phase 4 - Residential Building No.17	Ground + 3 Podia + 28 Upper Floors	82.65
44	Phase 4 - Villa Type B2	Lower Ground 2+ Lower Ground 1 + Ground	10.80
45	Phase 4 - Villa Type B1	Lower Ground + Ground	7.20
46	Phase 4 - Villa Type D	Ground + 1 Floor	7.20
47	Phase 4 - Villa Type B	Ground + 1 Floor	7.20
48	Phase 3 - Commercial Centre 3	Ground + 6 Upper Floors	23.00
49	Phase 3 - Commercial Centre 4	Ground Floor	3.6
50	Phase 4 - Auto & Bus Depot. 2	Ground Floor	--
51	Phase 5- Commercial Centre 1	Ground + 27 Upper Floors	87.60
52	Phase 5- Commercial Centre 5	Ground Floor	--
53	Phase 5-Villa Type A & B	Ground + 1Floor	7.20
54	Phase 5-Villa Type B2	Lower Ground 2+ Lower Ground 1+ Ground	10.80
55	Phase 5-Villa Type D	Ground + 1 Floor	7.20
56	Phase 5-Indoor Studio	Ground + 3 Floors	18.60
57	Phase 5-Resort	Lower Ground + Ground + 5 Upper Floors	22.20
58	Phase 5-Villa Cottage	Ground Floor	10.8
59	Phase 5-Deluxe Cottage	Ground Floor	6.3
60	Phase 5-SPA & Gym	Ground + 1 Floor	6.00
61	Phase 5-Fire Station 2	Ground Floor	--
62	Phase 5-Open Market 6	Ground Floor	--

23.Number of tenants and shops	Residential Flats - 10880Nos. (Including EWS & LIG), Shops - 160 Nos., Villa - 155 Nos., Social Housing Community Center, Community Center, Commercial Center - 5 Nos. (Departmental Store & Offices), School - 2 Nos., Hospital, Police Station, Auto & Bus Depot - 2 Nos., Open Market - 6 Nos., Multilevel Parking lot, Fire Station - 2 Nos., City management office, Club House, Indoor Studio, Resort, Cottage, Spa & Gym.
24.Number of expected residents / users	93277 Nos.
25.Tenant density per hectare	268 / 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))	Existing 18.00 mt. wide Karjat-Kondiwade road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 mt.
29.Existing structure (s) if any	The site is an open land except few existing structures like dilapidated farm house (Ground floor structure along with outhouse shed and security cabin)
30.Details of the demolition with disposal (If applicable)	Demolition debris shall be partly recycled for backfilling and partly handed over to recyclers.

31.Production Details

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

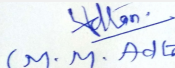
32.Total Water Requirement

Dry season:	Source of water	Maharashtra Jeevan Pradhikaran (MJP) / Tanker Water of potable quality
	Fresh water (CMD):	5276 KLD
	Recycled water - Flushing (CMD):	2954 KLD
	Recycled water - Gardening (CMD):	455 KLD
	Swimming pool make up (Cum):	32 KLD
	Total Water Requirement (CMD) :	8717 KLD
	Fire fighting - Underground water tank(CMD):	8000 KL
	Fire fighting - Overhead water tank(CMD):	4545 KL
	Excess treated water	3049 KLD


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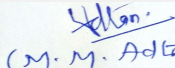

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Wet season:	Source of water	Maharashtra Jeevan Pradhikaran (MJP) / Tanker Water of potable quality								
	Fresh water (CMD):	5276 KLD (From MJP : 4939+ From RWH tanks : 337)								
	Recycled water - Flushing (CMD):	2954 KLD								
	Recycled water - Gardening (CMD):	NA								
	Swimming pool make up (Cum):	32 KLD								
	Total Water Requirement (CMD) :	8262 KLD								
	Fire fighting - Underground water tank(CMD):	8000 KL								
	Fire fighting - Overhead water tank(CMD):	4545 KL								
	Excess treated water	3504 KLD								
Details of Swimming pool (If any)	Swimming pool volume - 2255 m3 Swimming pool make up water requirement: 32 KL									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
34.Rain Water Harvesting (RWH)	Level of the Ground water table:	10 mt. - 15 mt. below ground level								
	Size and no of RWH tank(s) and Quantity:	5 RWH tanks of total capacity 1765 KL and provision of water pond of capacity 10656 KL								
	Location of the RWH tank(s):	Underground								
	Quantity of recharge pits:	Nil								
	Size of recharge pits :	Nil								
	Budgetary allocation (Capital cost) :	Rs. 830 .00 Lacs								
	Budgetary allocation (O & M cost) :	Rs. 34.27 Lacs/annum								
	Details of UGT tanks if any :	Location(s) of the UGT tank(s): Underground								


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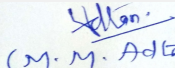

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35.Storm water drainage	Natural water drainage pattern:	In a present scenario overland runoff from the plot is disposed into an existing natural stream passing parallel to the South side of the plot. It is proposed to collect overland flow and sub plots runoff into road side drains. Runoff from the road side drains is proposed to be disposed into an existing natural stream.
	Quantity of storm water:	Total runoff contributing from plot after development: 12.53 m3/sec
	Size of SWD:	14.73 m3/sec
Sewage and Waste water	Sewage generation in KLD:	7175 KLD
	STP technology:	MBBR (Moving Bed Bio Reactor) technology followed by Phytoroid Technology
	Capacity of STP (CMD):	11 Nos. of STPs of total capacity 7735 KL and 1 ETP of capacity 100 KL
	Location & area of the STP:	Underground
	Budgetary allocation (Capital cost):	Rs. 1866.35 Lacs
	Budgetary allocation (O & M cost):	Rs. 341.26 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Excavated material will be fully reused on site for backfilling purpose and therefore cut-fill is balanced. Storage will be done in adjacent earmarked playground in each phase.
	Disposal of the construction waste debris:	Construction waste material shall be partly recycled and remaining shall be disposed to the authorized land fill site with permission of local authority
Waste generation in the operation Phase:	Dry waste:	16434 kg/day
	Wet waste:	10956 kg/day
	Hazardous waste:	--
	Biomedical waste (If applicable):	56.3 Kg/day
	STP Sludge (Dry sludge):	1073 Kg/day
	Others if any:	E - waste (Kg/annum): 12133
Mode of Disposal of waste:	Dry waste:	Shall be handed over to an Agency named as Thane Waste-Tech & Recyclers Private Limited
	Wet waste:	Treatment in Biomethanation Plant
	Hazardous waste:	--
	Biomedical waste (If applicable):	Disposal as per Bio-Medical Waste Management Rules, 2016
	STP Sludge (Dry sludge):	As manure
	Others if any:	E - waste: To authorized recyclers
Area requirement:	Location(s):	Ground
	Area for the storage of waste & other material:	2563 Sq.mt.
	Area for machinery:	--


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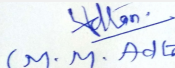

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Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 788.00 Lacs (Cost for treatment of biodegradable garbage)					
	O & M cost:	Rs. 15.36 Lacs/annum (Cost for treatment of biodegradable garbage)					
37.Effluent Charecterestics							
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):		94 KLD					
Capacity of the ETP:		100 KL					
Amount of treated effluent recycled :		84 KLD					
Amount of water send to the CETP:		Not applicable					
Membership of CETP (if require):		Not applicable					
Note on ETP technology to be used		Not applicable					
Disposal of the ETP sludge		Not applicable					
38.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
39.Stacks emission Details							
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases	
1	DG set	--	--	--	--	--	
40.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	--	--	--	--			
41.Source of Fuel		--					
42.Mode of Transportation of fuel to site		--					
43.Green Belt Development							
Total RG area :		59106.21 sq.mt.					
No of trees to be cut :		320 Nos.					
Number of trees to be planted :		6300 Nos.					
List of proposed native trees :		As mentioned below					
Timeline for completion of plantation :		Before completion of project					
44.Number and list of trees species to be planted in the ground							
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance			


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1	Albizia lebbeck	Shirish	415	Shady tree, yellowish green fragrant flowers, fast growing tree, soil moisture remains high under lebbeck as it provides dense canopy
2	Neolamarckia cadamba	Kadamba	425	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
3	Pongamia pinnata	Karanj	180	It has large canopy which spreads equally wide, It has potential to grow in salt water soil, drought-tolerant
4	Ficus amplissima	Pipar	195	It is evergreen tree with a widely spreading crown. The tree is sometimes harvested from the wild for its wood.
5	Azadirachta indica	Neem tree	195	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation
6	Albizia procera	Kawath/Wood Apple	310	It is a large, fast-growing tree with an open canopy that is almost evergreen but becomes leafless for a short time in the dry season. Harvested for timber also it is an ornamental tree
7	Oroxylum indicum	Tetu Tree	420	An ornamental for its strange appearance. The flowers are reddish- purple outside and pale, spinkish -yellow within, numerous, in large erect racemes. The fruits are flat capsules
8	Mimusops elengi	Bakul	425	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.
9	Madhuca longifolia	Moha	240	It is a fast-growing tree that grows to approximately 20 meters in height, possesses evergreen or semi-evergreen foliage.
10	Delonix regia	Gulmohar	730	Grown as an ornamental tree, Shady trees, orange-red petals attracts birds and petals. It is planted as an ornamental tree.
11	Millingtonia hortensis	The Indian cork tree	250	It grows upto 18 to 25 m high and leaves upto 40 years. It grows well in various soil types. White pleasant fragrant flowers. Birds fed on its fruit.
12	Erythrina variegata	Indian coral tree	301	It is a drought resistant tree. Flowers are pollinated by birds.
13	Schizolobium parahyba	Guapuruvu tree	50	A magnificent, fast growing ornamental normally tall tree.

14	Cassia fistula	Amaltas/Golden Shower Tree	90	Is widely grown as an ornamental plant. Growth for this tree is best in full sun on well-drained soil; it is relatively drought tolerant and slightly salt tolerant. It attracts bees and butterflies for pollination.
15	Jjacaranda mimosifolia	Neeli gulmohar	230	The Jacarandas are impressive trees in May when covered with clusters of blue tubular flowers. The ground below them turns rapidly blue, and some gardeners might object to that quantity of litter.
16	Terminalia elliptica	Ain	100	The wood is used for furniture, cabinetwork, joinery, paneling, specialty items, boat-building, railroad cross-ties (treated), and decorative veneers.
17	Pterocarpus marsupium	Bija	120	Parts of the Indian kino (heartwood, leaves, flowers) have long been believed to have medicinal properties in Ayurveda
18	Catalpa bignonioides	Indian bean tree	100	Indian Bean Tree is a medium-sized deciduous tree growing up to 15-18 m tall. The bright green leaves appear late and as they are full grown before the flower clusters open, add much to the beauty of the blossoming tree
19	Ficus microcarpa	Nandruk	305	Evergreen tree to 15 m (50 ft) or more in height, with a rounded dense crown, smooth gray bark, milky sap, and long, thin, dangling aerial roots. Fast-growing, able to survive in little or no soil when young; seedlings and saplings found in rain gutters, building crevices, sidewalk cracks, and on rocks Planted as ornamental
20	Mimusops elengi	Bakul	175	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.
21	Eucalyptus globulus	Eucalyptus	165	Evergreen tree grows upto 60 mt. Its flowers attracts insects, birds & bats. All parts of its used to prepare dyes. Its wood is used to prepare musical instruments. Possess medicinal properties
22	Sapindus laurifolius	Ritha/Indian Soapberry	175	Soapnut large tree, it is popular as a traditional washing soap
23	Buchnanian Cochinchinesis	Charoli	175	It is a deciduous tree which produces seeds edible by humans. It is known as charoli. These almond - flavored seeds are used as a cooking spice primarily in India

24	Butea monosperma	Flame of the forest	150	Bright orange-red flowers, it is used for timber, resin, fodder, medicine, and dye, he wood is dirty white and soft and, being durable under water, is used for well-curbs and water scoops. Good charcoal can be made from it.
25	Tabebuia impetiginosa	Pink trumpet tree	185	It is evergreen trees with silvery foliage and deeply furrowed, silvery bark on picturesque, contorted branches and trunk. It is highly drought tolerance.
26	Garcinia indica	Kokam Tree	180	Health benefits of include its ability to reduce allergic reactions, optimize digestion, protect the skin, boost the immune system, and relieve pain. The most important health benefits its ability to speed wound healing, prevent chronic disease, reduce allergic reactions
27	Lagerstroemia speciosa	Pride of India	32	Small to medium sized deciduous tree. Leaves opposite, narrowly elliptic, young leaves pubescent beneath, mature leaves glabrous on both sides. Flowers white, fragrant in terminal panicles
28	Saraca asoca	Sita Ashok	30	It is small evergreen tree
29	Caesalpinia pulcherrima	Son chafa	30	large evergreen tree,fragrant flowers,timber used in woodworking
30	Cochlospermum religiosum	Yellow silk cotton tree	35	A large deciduous tree
31	Syzygium cumini	Jamun	30	associated with many health and medicinal benefits. The black plum is known to relieve stomach pain, carminative, anti-scorbutic and diuretic
32	Dalbergia sissoo	Indian rose wood	32	deciduous or nearly evergreen tree, important commercial timber.
45.Total quantity of plants on ground				
46.Number and list of shrubs and bushes species to be planted in the podium RG:				
Serial Number	Name	C/C Distance	Area m2	
1	NA	NA	NA	
47.Energy				

Power requirement:	Source of power supply :	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	150 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	44685 KW
	During Operation phase (Demand load):	26811 KW
	Transformer:	68 Nos of 630 kVA each
	DG set as Power back-up during operation phase:	16 DG sets of 400 kVA each, 28 DG sets of 500 kVA each, 1 DG set of 100 kVA, 4 DG sets 250 kVA each, 1 DG set of 50 kVA, 12 DG sets of 600 kVA each, 1 DG set of 62.5 kVA , 1 DG set of 150 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48. Energy saving by non-conventional method:

- Provision of Solar PV Panels (to cater 1 % of demand load)
- Provision of solar water heating system to cater 20 % of hot water demand
- Street area lights based on Biogas generator
- Provision of LED lights and other conventional energy saving measures.

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy saving	Phase 1: 23%, Phase 2: 24%, Phase 3 : 23%, Phase 4: 22%, Phase 5: 26%
2	Saving due to renewable energy	Phase 1 : 8%, Phase 2 : 7%, Phase 3 : 7%, Phase 4: 7%, Phase 5: 4%

50. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	--	Sewage Treatment Plant (STP)
Solid waste	--	Biomethanation plant

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 568.43 Lacs (Solar system)
	O & M cost:	Rs. 16.87 Lacs/annum (Solar system)

51. Environmental Management plan Budgetary Allocation

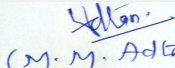
a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Dust suppression	56.16
2	Air Environment- Air and Noise quality	Sensors for Air quality & Noise level monitoring	16.50


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3	Air Environment- Air and Noise quality	By outside MoEF & CC Approved Laboratory & EMP for batching Plant	8.58
4	Air Environment	EMP for Batching plant	1.61
5	Water Environment	Drinking water analysis	0.39
6	Water Environment	RO Plant	10.00
7	Land Environment	Site Sanitation	10.00
8	Health & Hygiene	Disinfection- Pest Control	15.60
9	Health & Hygiene	First Aid Facility	0.15
10	Health & Hygiene	Health-check-up of workers	117.00
11	Health & Hygiene	Drinking water for workers	140.40
12	Cost towards disaster management	--	565.54

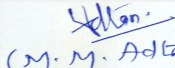
b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	AIR AND NOISE ENVIRONMENT- Cost for plantation	On site sensors	No set up cost is involved as already considered Construction Phase	0.50
2	AIR AND NOISE ENVIRONMENT- Cost for Ambient air & Noise Monitoring	By outside MoEF & CC Approved Laboratory	*No set up cost is involved	0.33
3	AIR AND NOISE ENVIRONMENT- Cost for Ambient air & Noise Monitoring	37 nos. of stacks	No set up cost is involved	0.89
4	Cost for DG Stack Exhaust Monitoring	77701.62 Sq.mt. of RG area on ground & podium	427.36	6.00
5	WATER ENVIRONMENT- Cost for Waste water Monitoring	Cost for Sewage Treatment Plant	1381.85	303.94
6	WATER ENVIRONMENT- Cost for Waste water Monitoring	Cost for Phytoid Technology	36.50	6.00
7	WATER ENVIRONMENT- Cost for Waste water Monitoring	Cost for holding pond for treated sewage	200.00	12.00
8	WATER ENVIRONMENT - Cost for Waste water Monitoring	Cost for pipeline from STP to holding pond	20.00	3.00


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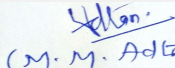

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9	WATER ENVIRONMENT- Cost for Waste water Monitoring	Cost for pipeline from holding pond to Places identified by KMC	At actual	--
10	WATER ENVIRONMENT- Cost for Waste water Monitoring	Cost for ETP for Hospital	12.00	4.00
11	WATER ENVIRONMENT - Cost for waste water treatment	On site sensors	216.00	12.00
12	WATER ENVIRONMENT- Cost for waste water treatment	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.32
13	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System)	Cost for RWH tanks	200.00	3.00
14	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for Rain Water collected in tanks	30.00	6.00
15	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System)	Cost for RWH pond	550.00	15.00
16	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for Rain Water collected in pond	50.00	10.00
17	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.27
18	WATER ENVIRONMENT- Water Conservation (Rain Water Harvesting System)	Cost for water treatment plant	400.00	8.00
19	LAND ENVIRONMENT - Solid Waste Management	Cost for Treatment of biodegradable garbage in Biogas Plant	788.00	15.36
20	ENERGY CONSERVATION - Use of renewable energy	Solar PV panels and Water heating system	568.43	16.87
21	Cost towards Disaster management	--	7685.00	336.50
22	Cost for pipeline from holding pond to Places identified by KMC	--	At actual	--


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

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

52.Any Other Information

No Information Available

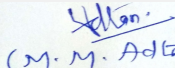
53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Three entry & exit
Parking details:	Number and area of basement:	Nil
	Number and area of podia:	Number of podia : As mentioned in the project proposal
	Total Parking area:	--
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	2W - 35079 Nos., Cycle - 35598 Nos.
	Number of 4-Wheelers as approved by competent authority:	5646 Nos.
	Public Transport:	Public Bus: 12 Nos, School Bus: 9 Nos., Auto: 15 Nos., Ambulance: 2 Nos.
	Width of all Internal roads (m):	minimum 6.00mt.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Project site is located at Shirse village which is not listed under ESA of Matheran as per notification dt. 04.02.2003 and amended notification dt. 16.04.2004. But details of nearest boundary of Eco sensitive zone of Matheran at Bhisegaon: Approx. 2.00 Km
	Category as per schedule of EIA Notification sheet	Category 8 (b) B1
	Court cases pending if any	Not Applicable


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	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	24-01-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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

PP informed that, the project under consideration is proposed New Integrated Township Project. PP further stated that, the total plot area of the project is 4,69,454.81 Sq.mt.having total construction area 1178869.81 Sq.mt.(FSI - 7,97,865.60 sq.mt +NON FSI- Total -3,81,004.21 sq.mt) and the building configuration is as follow-

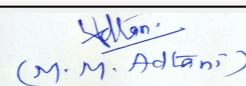
Building Name & number	Number of floors	Height (Mtrs)
Phase 1- Building No. 1	Ground + 5 Podia + 30 Upper Floors	102.60
Phase 1- Building No. 2	Ground + 5 Podia + 27 Upper Floors	94.05
Phase 1- Building No. 3	Ground + 4 Podia + 22 Upper Floors	77.70
Phase 1- Building No. 4	Ground + 2 Podia + 22 Upper Floors	66.00
Phase 1- Building No. 5	Ground + 2 Podia + 22 Upper Floors	65.55
Phase 1- Building No. 6	Ground + 3 Podia + 22 Upper Floors	74.10
Phase 1- Building No. 18	Ground + 2 Podia + 22 Upper Floors	68.40
Phase 1- Building No. 19	Ground + 2 Podia + 22 Upper Floors	68.40
Phase 1- Building No. 20	Ground + 2 Podia + 22 Upper Floors	68.40
Phase 1- Building No. 21	Ground + 3 Podia + 22 Upper Floors	71.25



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Phase 1- Building No. 22	Ground + 3 Podia + 22 Upper Floors	71.25
Phase 1- Social Housing LIG 1	Ground + 3 Podia + 22 Upper floors	71.25
Phase 1- Social Housing LIG 2	Ground + 3 Podia + 22 Upper floors	71.25
Phase 1- Social Housing LIG 3	Ground + 4 Podia + 21 Upper floors	74.10
Phase 1- Commercial Centre 2	Lower Ground + Ground + 16 Upper Floor	56.85
Phase 1 - Social Housing Community Centre	--	--
Phase 1- Commercial Centre 2	1 Building: Lower Ground + Ground + 16 Upper Floor	56.85
Phase 1- School 1	Ground+ 6 Upper Floors	25.65
Phase 1- Police Station	Ground Floors	3.3
Phase 1- Fire Station 1	Ground + 1 Floor	6.60
Phase 1 - Auto & Bus Depot. 1	Ground Floor	--
Phase 1 - Open Market 1, 2 & 5	Ground Floor	--
Phase 1 - Multi-level Parking Lot	Ground + 5 Upper Floors	17.40
Phase 1 - Security Cabin	Ground Floor	--

Phase 1 - City Management Office	Ground + 1 Floor	6.60
Phase 2 - Building No. 7	Ground + 3 Podia + 30 Upper Floors	96.90
Phase 2 - Building No. 8	Ground + 3 Podia + 28 Upper Floors	91.20
Phase 2 - Building No. 9	Ground + 2 Podia + 22 Upper Floors	65.55
Phase 2 - Building No. 10	Ground + 4 Podia + 22 Upper Floors	71.25
Phase 2 - Club House	Ground + 4 Floors	18.60
Phase 2 - Villa Type A	Ground + 1 Floor	7.20

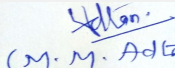
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Phase 2 - Villa Type B1	Lower Ground + Ground	7.20
Phase 2 - Villa Type C	Ground + 1 Floor	7.20
Phase 2 - Hospital	Ground + 7 Upper Floors	26.55
Phase 2 - Economical Weaker Section (EWS) scheme	Ground + 2 Podia + 21 Upper Floors	74.10
Phase 2 - School 2	Ground + 3 Floors	15.15
Phase 2 - Open Market 4	Ground Floor	--
Phase 2 - Temple	Ground Floor	--
Phase 3 - Building No.11	Ground + 4 Podia + 30 Upper Floors	91.20
Phase 3 - Building No.12	Ground + 4 Podia + 22 Upper Floors	76.95
Phase 3 - Building No.13	Ground + 4 Podia + 30 Upper Floors	88.25
Phase 3 - Building No.14	Ground + 5 Podia + 22 Upper Floors	79.80
Phase 3 - Villa Type B1	Lower Ground + Ground	7.20
Phase 3 - Villa Type C	Ground + 1 Floor	7.20


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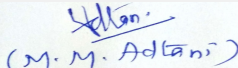
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Phase 3 - Community Centre	Lower Ground + Ground + 14 Upper Floors	56.35
Phase 3 - Open Market 3	Ground Floor	--
Phase 4 - Building No.15	Ground + 6 Podia + 28 Upper Floors	99.75
Phase 4 - Building No.16	Ground + 4 Podia + 22 Upper Floors	65.55
Phase 4 - Building No.17	Ground + 3 Podia + 28 Upper Floors	82.65
Phase 4 - Villa Type B2	Lower Ground 2+ Lower Ground 1 + Ground	10.80
Phase 4 - Villa Type B1	Lower Ground + Ground	7.20
Phase 4 - Villa Type D	Ground + 1 Floor	7.20
Phase 4 - Villa Type B	Ground + 1 Floor	7.20
Phase 3 - Commercial Centre 3	Ground + 6 Upper Floors	23.00
Phase 3 - Commercial Centre 4	Ground Floor	3.6
Phase 4 - Auto & Bus Depot. 2	Ground Floor	--
Phase 5- Commercial Centre 1	Ground + 27 Upper Floors	87.60
Phase 5- Commercial Centre 5	Ground Floor	--
Phase 5-Villa Type A & B	Ground + 1Floor	7.20
Phase 5-Villa Type B2	Lower Ground 2+ Lower Ground 1+ Ground	10.80
Phase 5-Villa Type D	Ground + 1 Floor	7.20
Phase 5-Indoor Studio	Ground + 3 Floors	18.60
Phase 5-Resort	Lower Ground + Ground + 5 Upper Floors	22.20
Phase 5-Villa Cottage	Ground Floor	10.8
Phase 5-Deluxe Cottage	Ground Floor	6.3
Phase 5-SPA & Gym	Ground + 1 Floor	6.00
Phase 5-Fire Station 2	Ground Floor	6.6
Phase 5-Open Market 6	Ground Floor	--

As decided in earlier meeting, committee visited the project site on 30/04/2019.

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DECISION OF SEAC

During site visit following points emerged

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

Specific Conditions by SEAC:

- 1) A detailed 1 metre contour interval survey of the project site should be developed by an accredited or licensed surveyor or by the project architect validating the survey report if prepared by an internal surveyor.
- 2) The drainage of the entire plot should be clearly surveyed & mapped within the 1 metre contour interval survey. The individual drains should be managed by the Digital Elevation model (DEM) & the impact of the project & changes to the imposed on the drainage pattern should be documented and submitted as record.
- 3) PP to submit details of soil strengthening concepts for reforestation of slopes. Also PP to submit details of retention of trees and small nursery to be developed before development of full garden.
- 4) PP to submit details of runoff control measures like bioswells.
- 5) PP to submit the Phase wise construction of STP & SWD development. PP & Local body to ensure that no CC/OC possession shall be given before completion of proportionate STP & SWD.
- 6) PP to submit the resolution of the General Body of KMC wherein proposal of CSTPs are taken up along with undertaking by PP for disposal of excess treated sewage

FINAL RECOMMENDATION

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

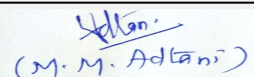
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