Agenda of 116th Meeting (Day-2) of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 116 **Meeting Date** October 11, 2019

Subject: Environment Clearance for Environment Clearance for Proposed SRA :Ganesh Nagar SRA CHS, Shivsagar SRA CHS, Janpriya SRA CHS, Bahar SRA CHS, Adarsh SRA CHS, Sahara CHS on land bearing CTS nos. 471A (Pt.) of village Kandivali in R/S ward of MCGM

Is a Violation Case: No

1.Name of Project	Ruparel Optima- Proposed SRA Scheme on land bearing CTS nos. 471A (Pt.) of village Kandivali, Taluka Borivali, Mumbai
2.Type of institution	Private
3.Name of Project Proponent	M/s. Ruparel Infra & Realty Pvt. Ltd and M/s. Skoda Construction Ganesh Nagar
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	SRA Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Proposed SRA: Ganesh Nagar SRA CHS, Shivsagar SRA CHS, Janpriya SRA CHS, Bahar SRA CHS, Adarsh SRA CHS, Sahara CHS on land bearing CTS nos. 471A (Pt.) of village Kandivali in R/S ward of MCGM
9.Taluka	Borivali
10.Village	Kandivali
Correspondence Name:	Mr. Amit Ruparel
Room Number:	0
Floor:	12th
Building Name:	Ruparel Iris
Road/Street Name:	Senapati Bapat Marg
Locality:	Matunga West Station
City:	Mumbai
11.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	IOD/IOA/Concession/Plan Approval Number: SRA/ENG/1499/RS/STGL/LOI
	IOD/IOA/Concession/Plan Approval Number: IOD/IOA/Concession/Plan Approval Number: SRA/ENG/1499/RS/STGL/LOI
	Approved Built-up Area: 76291.31
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	SRA/ENG/1499/RS/STGL/LOI
15.Total Plot Area (sq. m.)	24,566.34 Sq.m
16.Deductions	3375.03 Sq.m
17.Net Plot area	21,191.31 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 97864.22
	b) Non FSI area (sq. m.): 71390.15
	c) Total BUA area (sq. m.): 169397.63
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 76,291.31
	Approved Non FSI area (sq. m.): 44,525.32
	Date of Approval: 28-09-2017
19.Total ground coverage (m2)	6352.27
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29.9 %

21.Estimated cost of the project	7961800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab building no. 1	Ground + 23 UF	69.60
2	Rehab building no. 2	Ground + 23 UF	69.60
3	Rehab building no. 3	Ground + 23 UF	69.60
4	Rehab building no. 4	Ground + 23 UF	69.60
5	Rehab building no. 5	Ground + 23 UF	69.60
6	Sale building no. 1	Basement + Ground + 2 (Commercial) + 1st to 40th UF (Residential)	135.0
7	Sale building no. 2	Basement + Ground + 1st to 42nd UF	129.75
8	Sale building no. 3	Basement + Ground + 1 (Commercial) + 1st to 41st UF (Residential)	132.0

23.Number of tenants and shops	Flats: 2794 nos., Shops: 224 nos.
24.Number of expected residents / users	12,430 nos. (Rehab: 6155 nos. and Sale: 6275 nos)
25.Tenant density per hectare	650
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	13.40 M wide DP road & 27.45 M Link Road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m - 9 m
29.Existing structure (s) if any	910 slums
30.Details of the demolition with disposal (If applicable)	Will be done as per concerned authority norms

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM + STP Recycled water
	Fresh water (CMD):	1082
	Recycled water - Flushing (CMD):	544
	Recycled water - Gardening (CMD):	9
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	1637
	Fire fighting - Underground water tank(CMD):	Rehab Bldg 1 = 150 cum, Rehab Bldg 2, 3, 4, 5 : 250 cum, Sale 1 = 200 cum for each
	Fire fighting - Overhead water tank(CMD):	Rehab : 20 cum for each wing Sale : 30 cum for each wing
	Excess treated water	813
Wet season:	**Source of water**	MCGM + STP Recycled water
	Fresh water (CMD):	1082
	Recycled water - Flushing (CMD):	544
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	1628
	Fire fighting - Underground water tank(CMD):	Rehab Bldg 1 = 150 cum, Rehab Bldg 2, 3, 4, 5 : 250 cum, Sale 1 = 200 cum for each
	Fire fighting - Overhead water tank(CMD):	Rehab : 20 cum for each wing Sale : 30 cum for each wing
	Excess treated water	822
Details of Swimming pool (If any)	Size: 60 sq. m : 15m x 4 m Depth - 1.8m	

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:**	Between 3.0 to 3.5 m below ground
	Size and no of RWH tank(s) and Quantity:	Rehab: 12 cum for each bldg Sale: 20 cum for each bldg
	Location of the RWH tank(s):	Rehab Bldg : Ground, Sale Bldg : Ground
	Quantity of recharge pits:	0
	Size of recharge pits :	0
	Budgetary allocation (Capital cost) :	Sale : 12 lakh Rehab : 5 lakh
	Budgetary allocation (O & M cost) :	Sale : 02 lakh Rehab : 0.5 lakh
	Details of UGT tanks if any :	Building Domestic (cum) Flushing (cum) Rehab 1 75 38 Rehab 2 & 3 197 100 Rehab 4 & 5 226 115 Sale 1 207 104 Sale 2 177 89 Sale 3 179 90
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drain is laid at a slope of 1: 300 to the municipal outfall outside the plot. Rain water from site shall be collected by network of storm water piping system through catch basins and storm channel & then allowed to connect to the public storm water line outside the plot boundary.
	Quantity of storm water:	0.13cm/sec R:0.065
	Size of SWD:	600 mm wide and 450mm deep drain channel
Sewage and Waste water	**Sewage generation in KLD:**	Rehab Bld. : 733 KLD Sale Bld. : 785 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	Rehab Bldg : 810 KLD Sale Bldg : 870 KLD
	Location & area of the STP:	Rehab Bldg : Ground, Sale Bldg : Ground
	Budgetary allocation (Capital cost):	Sale : 120 lakh Rehab : 97 lakh
	Budgetary allocation (O & M cost):	Sale : 25 lakh Rehab : 20 lakh

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation quantity: 3,095.366 cu.m Demolition debris: 16,482.8 cu. ft
	Disposal of the construction waste debris:	Debris generated during construction phase will be collected at one place and will be disposed off to MCGM approved land-filling sites.
Waste generation in the operation Phase:	**Dry waste:**	Rehab Bldg : 1231Kg/day Sale Bldg : 1255 Kg/day
	Wet waste:	Rehab Bldg : 1847 Kg/day Sale Bldg : 1883 Kg/day
	Hazardous waste:	0
	Biomedical waste (If applicable):	0
	STP Sludge (Dry sludge):	Sale : 12 kg Rehab : 10 kg
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Dry waste would be further segregated into recyclable and non-recyclable. Recyclable will be handed over to authorize vendors and non-recyclable will be disposed off at MCGM land fill sites
	Wet waste:	Wet Garbage will be treated in Mechanical Composting Unit. Organic Waste Convertor (OWC) and the compost generated would be used as manure for gardening purpose and excess would be sold to authorized vendors.
	Hazardous waste:	NIL
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	Dry sludge would be used as manure for gardening purpose and excess would be sold to authorize vendors.
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	Sale : 20sqm Rehab : 30 sqm
	Area for machinery:	Sale : 15sqm Rehab : 20sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Sale : 10 lakh Rehab : 15 lakh
	O & M cost:	Sale : 04 lakh Rehab : 05 lakh

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total

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

43.Green Belt Development	**Total RG area :**	1722.97 sq.m
	No of trees to be cut :	5
	Number of trees to be planted :	10
	List of proposed native trees :	list of proposed native trees is given in below table 45.
	Timeline for completion of plantation :	4 years after completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cocos nucifera	Coconut	3	Fruit bearing evergreen tree
2	Emblica officinalis	Awla	7	fruits used for preventative and therapeutic purposes
3	Phoenix dactylifera	Khajur	5	flowering plant species
4	Plumeria	Chafa	8	Flower bearing deciduous tree
5	Bauhinia purpurea	Kanchan	4	medium-sized deciduous fast-growing
6	Butea monosperma	Palas	6	medium-sized dry-season deciduous tree
7	Azadiractha indica	Neem	10	Flower bearing deciduous tree
8	Cassia fistula	Bahavn	11	Flower bearing deciduous tree
9	Mesua ferrea	Nagkesur	8	widely cultivated as an ornamental due to its graceful shape, grayish-green foliage
10	Michelia champaca	Champaka	7	large evergreen tree
11	Lagestroemia speciosa	Taman	9	Medium-sized tree, with smooth, flaky bark. leaves are deciduous
12	Ficus glomerata	Umber	2	Evergreen and deciduous tree
13	Ficus bengalensis	Wad	1	Fruit bearing evergreen tree
14	Ficus religiosa	Pimpal	1	Dust Resistant and Local Variety
15	Terminalia crenulata	Ain	4	deciduous tree
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	NA	0	0

47.Energy

Power requirement:	**Source of power supply :**	TATA
	During Construction Phase: (Demand Load)	Sale : 500KW Rehab : 500KW
	DG set as Power back-up during construction phase	Sale : 180Kva Rehab : 180 Kva
	During Operation phase (Connected load):	Sale : 14.4MVA Rehab : 5.6 MVA
	During Operation phase (Demand load):	Sale : 5.9 MVA Rehab : 3.2 MVA
	Transformer:	Sale : 750 x 6nos. Rehab : 1500 x 3nos.
	DG set as Power back-up during operation phase:	Sale : 750Kva x 1no Rehab : 180Kva x 1no, 250Kva x 2nos
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	33Kva

48.Energy saving by non-conventional method:

- Use of Solar energy for street & landscape lighting
- Solar water heater (one toilet for all apartment)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED lighting, VFD, Solar lighting, Energy efficient pumps	Sale: 17% Rehab: 36 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Sale : 94 lakhs Rehab : 88 lakhs
	O & M cost:	Sale : 9 lakhs Rehab : 8 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	Excavation & Debris management	NIL	12
2	Provision of sanitation facilities for labours	Provision of clean toilets, potable drinking water, Arrangements for first aid	7

3	Provision of health and safety facilities for labours	Medical tests, training in safety	0
4	Monitoring of environmental parameters	Monitoring of air, noise and water quality	2.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain water harvesting	Rehab Bldg : 12 cum, 12 cum, 12 cum, 12 cum, 12 cum, Sale Bldg : 20 cum, 20 cum, 20 cum	Sale: 12 lakh Rehab: 5 lakh	Sale: 2 lakh Rehab: 0.5 lakh
2	Sewage treatment Plant	Rehab Bldg : 810 KLD Sale Bldg : 870 KLD	Sale: 120 lakh Rehab: 97 lakh	Sale: 25 lakh Rehab: 20 lakh
3	Solid waste management	Rehab Bldg : 3078 Kg/day Sale Bldg : 3138 Kg/day	Sale: 10 lakh Rehab: 15 lakh	Sale: 04 lakh Rehab: 05 lakh
4	Energy saving	LED lighting, VFD, Solar lighting, Energy efficient pumps	Sale: 94 lakh Rehab: 88 lakh	Sale: 9 lakh Rehab: 8 lakh
5	Landscaping	Tress will be planted	4.7	0.94
6	Firefighting measures	firefighting measures will be taken as per NBC	Sale: 70 lakhs Rehab: 60 lakhs	Sale: 5 lakhs Rehab: 2 lakhs
7	Monitoring of Environmental Parameters	NA	0	10.0
8	Environmental Monitoring Cell	NA	7.35	1.10

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	1 Basement in each Sale building for services Area: 814.57 sq.m x 3 nos. = 2443.71 sq.m
	Number and area of podia:	0
	Total Parking area:	571.21
	Area per car:	As per norms
	Area per car:	As per norms
	Number of 2-Wheelers as approved by competent authority:	0
	Number of 4-Wheelers as approved by competent authority:	Sale parking : 310 nos. Rehab parking : 354 nos. Total : 654 nos.
	Public Transport:	NIL
	Width of all Internal roads (m):	6M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	0
	Category as per schedule of EIA Notification sheet	8 (b) Category B
	Court cases pending if any	NIL
	Other Relevant Informations	NIL
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
Name of Project	Ruparel Optima- Proposed SRA Scheme on land bearing CTS nos. 471A (Pt.) of village Kandivali, Taluka Borivali, Mumbai	Ruparel Optima - Proposed SRA Scheme" Ganesh Nagar SRA CHS, Shivsagar SRA CHS, Janpriya SRA CHS, Bahar SRA CHS, Adarsh SRA CHS, Sahara CHS of village Kandivali in R/S ward of MCGM, Taluka Borivali, Mumbai
Type of institution	Private	Private
Name of Project Proponent	Shree Siddhivinayak Infrastructure and Realty	Ruparel Infra & Realty Pvt. Ltd
Name of Consultant	Aditya Environmental Services Pvt. Ltd.	Aditya Environmental Services Pvt. Ltd.

New project / expansion in existing project / modernization / diversification in existing project	New	New
If expansion / diversification, whether environmental clearance has been obtained for existing project	No	No
Location of the project	Proposed SRA: Ganesh Nagar SRA CHS, Shivsagar SRA CHS, Janpriya SRA CHS, Bahar SRA CHS, Adarsh SRA CHS, Sahara CHS on land bearing CTS nos. 471A (Pt.) of village Kandivali in R/S ward of MCGM	Proposed SRA : Ganesh Nagar SRA CHS, Shivsagar SRA CHS, Janpriya SRA CHS, Bahar SRA CHS, Adarsh SRA CHS, Sahara CHS on land bearing CTS nos. 471A (Pt.) of village Kandivali in R/S ward of MCGM, Taluka Borivali, Mumbai
Taluka	Borivali	Borivali
Village	Kandivali	Kandivali
Correspondence Name	Mr. Amit Ruparel	Mr. Amit Ruparel
Room Number	0	0
Floor	12th	12th
Building Name	Ruparel Iris	Ruparel Iris
Road/Street Name	Senapati Bapat Marg	Senapati Bapat Marg
Locality	Matunga West Station	Matunga West Station
City	Mumbai	Mumbai
Area of the project	Municipal Corporation of Greater Mumbai	Municipal Corporation of Greater Mumbai
IOD / IOA / Concession / Plan Approval Number	SRA/ENG/1499/RS/STGL/LOI	SRA/ENG/1499/RS/STGL/LOI
Note on the initiated work (If applicable)	NA	NA
LOI / NOC / IOD from MHADA / Other approvals (If applicable)	SRA/ENG/1499/RS/STGL/LOI	SRA/ENG/1499/RS/STGL/LOI
Total Plot Area (sq. m.)	24,566.34	24,566.34
Deductions SQ.M	3375.03	3375.03
Net Plot area SQ.M	21,191.31	21,191.31
PROPOSED FSI AREA SQ.M	95721.7	97864.22
PROPOSED NON FSI SQ.M	69199.56	71390.15
TOTAL BUA SQ.M SQ.M	1,64,921.26	1,69,397.63
Approved FSI area SQ.M	76,291.31	76,291.31
Approved Non FSI area SQ.M	44,525.32	44,525.32
Date of Approval	28/09/2017	28/09/2017

Total ground coverage SQ.M	6352.27	6352.27
Ground-coverage Percentage %	29.9	29.9
PROJECT COST RS. IN CRORES	796.18	796.18
NO. OF REHAB BUILDINGS	5	5
NO. OF SALE BUILDINGS	3	3
REHAB BUILDING 1	Ground + 18 (pt) UF	Ground + 23 UF
REHAB BUILDING 2	Ground + 23 UF	Ground + 23 UF
REHAB BUILDING 3	Ground + 23 UF	Ground + 23 UF
REHAB BUILDING 4	Ground + 23 UF	Ground + 23 UF
REHAB BUILDING 5	Ground + 23 UF	Ground + 23 UF
SALE BUILDING 1	Ground + 2 (Commercial) + 3rd to 40th UF (Residential)	Basement + Ground + 2 (Commercial) + 1st to 40th UF (Residential)
SALE BUILDING 2	Ground + 1st to 42nd UF	Basement + Ground + 1st to 42nd UF
SALE BUILDING 3	Basement + Ground + 1 (commercial) + 2nd to 41st UF (residential)	Basement + Ground + 1 (Commercial) + 1st to 41st UF (Residential)
MAXIMUM HEIGHT OF BUILDING IN METERS	REHAB: 69.60, SALE : 135	REHAB: 69.60, SALE : 135
NO. OF UNITS REHAB 1	FLATS : 2759, SHOPS: 232	FLATS : 2784, SHOPS: 224
Number of expected residents / users	11724	12430 (Rehab: 6155 nos. and Sale: 6275 nos)
Tenant density per hectare	650	699
Right of way (Width of the road from the nearest fire station to the proposed building(s)	13.40 M wide DP road & 27.45 M Link Road	13.40 M wide DP road & 27.45 M Link Road
Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5-9m	7.5-9m
Existing structure (s) if any	910 slums	910 slums
Details of the demolition with disposal (If applicable)	Will be done as per concerned authority norms	Will be done as per concerned authority norms
Source of water	MCGM + STP Recycled water for flushing, gardening	MCGM + STP Recycled water for flushing, gardening
Fresh water (CMD)	1002	1082
Recycled water - Flushing(CMD):	516	544
Recycled water - Gardening (CMD):	9	9

Swimming pool make up (Cum):	2	2
Total Water Requirement	1518	1637
Fire fighting - Underground water tank(CMD)	Rehab Bldg 1 = 150 cum, Rehab Bldg 2, 3, 4, 5 : 250 cum, Sale 1 = 200 cum for each	Rehab Bldg 1 = 150 cum, Rehab Bldg 2, 3, 4, 5 : 250 cum, Sale 1 = 200 cum for each
Fire fighting - Overhead water tank(CMD):	Rehab : 20 cum for each wing Sale : 30 cum for each wing	Rehab : 20 cum for each wing Sale : 30 cum for each wing
Excess treated water	751	820
Fresh water (CMD) - wet season	1002	1082
Recycled water - Flushing(CMD): - wet season	516	544
Recycled water - Gardening (CMD): wet season	0	0
Swimming pool make up (Cum): - wet season	2	2
Total Water Requirement (Wet Season)	1520	1628
Excess treated water	759	822
Level of the Ground water table	Between 3.0 to 3.5 m below ground	Between 3.0 to 3.5 m below ground
Size and no of RWH tank(s) and Quantity	Rehab: 12 cum for each bldg Sale: 20 cum for each bldg	Rehab: 12 cum for each bldg Sale: 20 cum for each bldg
Location of the RWH tank(s):	Rehab Bldg : Ground, Sale Bldg : Ground	underground
Quantity of recharge pits:	NA	NA
Size of recharge pits	NA	NA
Budgetary allocation (Capital cost) :	Sale : 12 lakh Rehab : 5 lakh	Sale : 12 lakh Rehab : 5 lakh
Budgetary allocation (O & M cost) :	Sale : 02 lakh Rehab : 0.5 lakh	Sale : 02 lakh Rehab : 0.5 lakh
Details of UGT tanks if any	domestic: 1061 cum, flushing: 536 cum	domestic: 1061 cum, flushing: 536 cum
Natural water drainage pattern:	Storm water drain is laid at a slope of 1: 300 to the municipal outfall outside the plot. Rain water from site shall be collected by network of storm water piping system through catch basins and storm channel & then allowed to connect to the public storm water line outside the plot boundary.	Storm water drain is laid at a slope of 1: 300 to the municipal outfall outside the plot. Rain water from site shall be collected by network of storm water piping system through catch basins and storm channel & then allowed to connect to the public storm water line outside the plot boundary.
Quantity of storm water:	0.13cm/sec R:0.065	0.13cm/sec R:0.065
Size of SWD	600 mm wide and 450mm deep drain channel	600 mm wide and 450mm deep drain channel
Sewage generation in KLD:	Rehab Bld. : 641 KLD Sale Bld. : 767 KLD	Rehab Bld. : 733 KLD Sale Bld. : 785 KLD
STP technology	MBBR	MBBR

Capacity of STP	Rehab Bldg : 650 KLD Sale Bldg : 775 KLD	Rehab Bldg : 810 KLD Sale Bldg : 870 KLD
Location & area of the STP	Rehab Bldg : Ground, Sale Bldg : Ground	Rehab Bldg : Underground, Sale Bldg : underground
Budgetary allocation (Capital cost):	Sale : 120 lakh Rehab : 97 lakh	Sale : 120 lakh Rehab : 97 lakh
Budgetary allocation (O & M cost):	Sale : 25 lakh Rehab : 20 lakh	Sale : 25 lakh Rehab : 20 lakh
Waste generation	Excavation quantity: 3,095.366 cu.m Demolition debris: 16,482.8 cu. ft	Excavation quantity: 3,095.366 cu.m Demolition debris: 16,482.8 cu. ft
Disposal of the construction waste debris:	Debris generated during construction phase will be collected at one place and will be disposed off to MCGM approved land-filling sites	Debris generated during construction phase will be collected at one place and will be disposed off to MCGM approved land-filling sites
Others if any	NA	NA
Location(s):	Ground	Ground
Area for the storage of waste & other material:	Sale : 20 sqm Rehab : 30 sqm	Sale : 20sqm Rehab : 30 sqm
Area for machinery	Sale : 15sqm Rehab : 20sqm	Sale : 15sqm Rehab : 20sqm
Capital cost:	Sale : 10 lakh Rehab : 15 lakh	Sale : 10 lakh Rehab : 15 lakh
O & M cost:	Sale : 04 lakh Rehab : 05 lakh	Sale : 04 lakh Rehab : 05 lakh
Amount of effluent generation (CMD):	NA	NA
Capacity of the ETP:	NA	NA
Amount of treated effluent recycled :	NA	NA
Amount of water send to the CETP:	NA	NA
Membership of CETP (if require):	NA	NA
Note on ETP technology to be used	NA	NA
Disposal of the ETP sludge	NA	NA
Hazardous Waste Details	NA	NA
Stacks emission Details	NA	NA
Details of Fuel to be used	NA	NA
Total RG area IN SQ.M	1722.97	1862.55
No of trees to be cut	5	5
Number of trees to be planted:	10	10
List of proposed native trees:	list of proposed native trees are given in table 45	list of proposed native trees are given in EIA report
Timeline for completion of plantation:	4 years after completion of the project	4 years after completion of the project
Total quantity of plants on ground	86 + 10 +2 = 98	86 + 10 +2 = 98

Number and list of shrubs and bushes species to be planted in the podium RG:	list of proposed native trees are given in table 45	list of proposed native trees are given in EIA report
Source of power supply :	TATA Power	TATA Power
During Construction Phase: (Demand Load)	Sale : 500KW Rehab : 500KW	Sale : 500KW Rehab : 500KW
DG set as Power back-up during construction phase	Sale : 180Kva Rehab : 180 Kva	Sale : 180Kva Rehab : 180 Kva
During Operation phase(Connected load):	Sale : 14.4MVA Rehab : 5.6 MVA	Sale : 14.4MVA Rehab : 5.6 MVA
During Operation phase (Demand load):	Sale : 5.9 MVA Rehab : 3.2 MVA	Sale : 5.9 MVA Rehab : 3.2 MVA
Transformer:	Sale : 750 x 6nos. Rehab : 1500 x 3nos.	Sale : 750 x 6nos. Rehab : 1500 x 3nos.
DG set as Power back-up during operation phase:	Sale : 750Kva x 1no Rehab : 180Kva x 1no 250Kva x 2nos	Sale : 750Kva x 1no Rehab : 180Kva x 1no 250Kva x 2nos
Details of high tension line passing through the plot if any:	33Kva	33Kva
Fuel used	Diesel	Diesel
Energy saving by non-conventional method	Solar lighting, Solar PV System	• Use of Solar energy for street & landscape lighting • Solar water heater (one toilet for all apartment)
Detail calculations & % of saving	sale: 19%, Rehab: 32%	sale: 17%, Rehab: 36%
Capital cost	Sale : 94 lakhs Rehab : 88 lakhs	Sale : 94 lakhs Rehab : 88 lakhs
O & M cost	Sale : 9 lakhs Rehab : 8 lakhs	Sale : 9 lakhs Rehab : 8 lakhs
EMP construction phase	capital cost:21.50	capital cost: 21.50 lacs
EMP operation phase	capital cost: 645.7 lacs; recurring cost:81.44 lacs	capital cost: 536.05 lacs, recurring cost:92.54 lacs
Nos. of the junction to the main road & design of confluence	2	2
Number and area of basement:	1 Basement in each Sale building for services Area: 814.57 sq.m	1 Basement in each Sale building for services Area: 814.57 sq.m
Number and area of podia:	0	0
Total Parking area	571.21	571.21
Area per car	as per norms	as per norms
Number of 2-Wheelers as approved by Competent authority:	0	0
Number of 2-Wheelers as approved by Competent authority:	For residential: 531 nos, For commercial: 121nos	Sale parking : 310 nos. Rehab parking : 354 nos. Total : 654 nos.
Public Transport	NA	NA

Width of all Internal roads (m):	6m	6m
CRZ/ RRZ clearance obtain, if any	NA	NA
Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	na	na
Category as per schedule of EIA Notification sheet	8 (b) Category B	8 (b) Category B
Court cases pending if any	NA	NA
Other Relevant Information's	NA	NA
Have you previously submitted Application online on MOEF Website	NO	NO
Date of online submission	NA	NA

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP Mr. Amit Ruparel was present during the meeting along with environmental consultant M/s. Aditya Environmental Services Pvt. Ltd.

PP informed that, the project under consideration is *proposed expansion township project. PP further stated that, t*he total plot area of the project is 24,566.34Sq.mt having total construction area 169397.63 Sq.mt (FSI - 97864.22 sq.mt +NON FSI- 71390.15 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Rehab building no. 1	Ground + 23 UF	69.60
Rehab building no. 2	Ground + 23 UF	69.60
Rehab building no. 3	Ground + 23 UF	69.60
Rehab building no. 4	Ground + 23 UF	69.60
Rehab building no. 5	Ground + 23 UF	69.60
Sale building no. 1	Basement + Ground + 2 (Commercial) + 1st to 40th	135.0
Sale building no. 2	Basement + Ground + 1st to 42nd UF	129.75
Sale building no. 3	Basement + Ground + 1 (Commercial) + 1st to 41st UF (Residential)	132.0

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

DECISION OF SEAC

As per the CS application, the PP is seeking EC for FSI area of 97864.20 sq.m, whereas the LOI/ Plan approved is for FSI area of 99092.70 sq.m. PP to clarify same by next meeting. The proposal is therefore postponed to next meeting.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 116th Meeting (Day-2) of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 116 **Meeting Date** October 11, 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.Whether in Corporation / Municipal / other area	Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	Received IOA for Rehab building: SRA/ ENG/ F-N/ STGOVT/ 0064/ 20140719/ AP/ RB – 1; Received IOA for Sale building: SRA/ ENG/ F-N/ STGOVT/ 0064/ 20140719/ AP/ SB – 2
	IOD/IOA/Concession/Plan Approval Number: Received IOA for Rehab building: SRA/ ENG/ F-N/ STGOVT/ 0064/ 20140719/ AP/ RB – 1; Received IOA for Sale building: SRA/ ENG/ F-N/ STGOVT/ 0064/ 20140719/ AP/ SB – 2
	Approved Built-up Area: 146250.18
13.Note on the initiated work (If applicable)	Part demolition of existing slums is done.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Received Letter of Intent (LOI) from Slum Rehabilitation Authority (SRA) dated 20.05.2019
15.Total Plot Area (sq. m.)	26,376.38
16.Deductions	1138.55
17.Net Plot area	25,237.83
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,67,612.42 Sq. mt. (Including fungible area)
	b) Non FSI area (sq. m.): 1,47,248.69
	c) Total BUA area (sq. m.): 314861.11
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 146250.18 Sq. mt.
	Approved Non FSI area (sq. m.): Not mentioned in IOA
	Date of Approval: 22-05-2019
19.Total ground coverage (m2)	11,172.04
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	44.26 %
21.Estimated cost of the project	10400000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehabilitation: 1 Building with 3 Wings	--	--
2	Wing A, B and C	3 Basements + Ground + 40 Floors + 41st (Part) Floor	119.85
3	Sale: 4 Towers	--	--
4	Tower 1, 2, 3 and 4	3 Basements (Parking) + Ground (Part Parking/ Part Commercial) + 2 Level Podium (Part Parking & Part Commercial) + 3rd and 4th Level Part Fitness + Part Residential + 5th to 40th Residential Levels each	125.00

23.Number of tenants and shops	Rehabilitation: Flats: 1628 Nos. R/C: 1 No. Rehab Shops: 75 Nos. Balwadi: 7 Nos. Welfare Centre: 7 Nos. Society office: 17 Nos. Community hall: 1 No. Yuva Kendra: 4 Nos. Skill Department Centre: 4 Nos. Library: 4 Nos. Women Entrepreneur: 2 Nos. Religious Structure: 7 nos. Sale: Total Flats: 1161 Nos.
24.Number of expected residents / users	13015 Nos.
25.Tenant density per hectare	1136/ 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 6.0 mt. and maximum 14.00 mt.
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)	The demolition debris generated from demolition of existing slums has been reused on site for site development and filling purpose and remaining has been disposed to authorized landfill site as per NOC dt. received from M.C.G.M. Demolition debris generated due to demolition of remaining slums shall be disposed to Authorized landfill site.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	M.C.G.M/ Tanker water for Swimming pool make up
	Fresh water (CMD):	1144
	Recycled water - Flushing (CMD):	575
	Recycled water - Gardening (CMD):	51
	Swimming pool make up (Cum):	08 KLD
	Total Water Requirement (CMD) :	1778
	Fire fighting - Underground water tank(CMD):	Rehabilitation: 400 KL, Sale: 525 KL
	Fire fighting - Overhead water tank(CMD):	Rehabilitation: 100 KL, Sale: 100 KL
	Excess treated water	716
Wet season:	**Source of water**	M.C.G.M/ Tanker water for Swimming pool make up/ Partly by RWH
	Fresh water (CMD):	From M.C.G.M.: 1099; From RWH Tank: 45
	Recycled water - Flushing (CMD):	575
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	08 KLD
	Total Water Requirement (CMD) :	1727
	Fire fighting - Underground water tank(CMD):	Rehabilitation: 400 KL, Sale: 525 KL
	Fire fighting - Overhead water tank(CMD):	Rehabilitation: 100 KL, Sale: 100 KL
	Excess treated water	767
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

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 Tanks of total capacity 110 KL; Sale: 4 RWH tanks of total capacity 140 KL
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	Rs. 46.00 Lacs
	Budgetary allocation (O & M cost) :	Rs. 1.64 Lacs/annum
	Details of UGT tanks if any :	Location of UG Tanks: Basement
35.Storm water drainage	**Natural water drainage pattern:**	In present scenario storm water from the plot is disposed in to an existing 2.40 m wide main drain passing adjacent to the plot. After development storm water from the plot is proposed to be disposed in to an existing road side drain passing in front of the plot
	Quantity of storm water:	0.73 m3/sec
	Size of SWD:	600 mm wide drain with slope 1:250
Sewage and Waste water	**Sewage generation in KLD:**	1491 KLD
	STP technology:	Moving Bed Bio Reactor (MBBR)
	Capacity of STP (CMD):	Rehabilitation: STP of capacity 850 KL And Sale: STP of capacity 800 KL
	Location & area of the STP:	Basement
	Budgetary allocation (Capital cost):	Rs. 426.60 Lacs
	Budgetary allocation (O & M cost):	Rs. 60.66 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation material (27536 cum) shall be partly reused on site for filling and remaining (181593 cum) shall 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:**	3427 kg/day
	Wet waste:	2286 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	224 kg/day
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	To authorized recyclers
	Wet waste:	Organic Waste Convertor (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):**	ground floor
	Area for the storage of waste & other material:	171 Sq. mt.
	Area for machinery:	24 Sq. mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 18.00 Lacs
	O & M cost:	Rs. 9.47 Lacs/annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	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 send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		Not applicable			
Disposal of the ETP sludge		Not applicable			

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	--	--	--
41.Source of Fuel		--		
42.Mode of Transportation of fuel to site		--		

43.Green Belt Development	**Total RG area :**	2141.05 Sq. mt.
	No of trees to be cut :	Nil
	Number of trees to be planted :	129 nos.
	List of proposed native trees :	As given below in “List of proposed plantation on ground”
	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	Putranjiva roxburgii	Putranjiva	16	Fruit has medicinal properties
2	Plumeria alba	White frangipan	7	Ornamental plant with medicinal properties
3	Plumeria rubra	Red frangipani	22	Ornamental plant
4	Bauhinia racemosa	Apta	5	Butterfly host plant
5	Mimusops elengi	Bakul	3	It is used in traditional medicine
6	Cassia fistula	Bahava	1	It has medicinal properties, Butterfly host plant
7	Lagerstroemia flos-reginae	Tamhan	9	It has medicinal properties, wood is commercially used
8	Azadiracta indica	Neem	12	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties
9	Ailanthus excelsa	Maharukh	33	Large tree, aromatic, good for roadside plantation
10	Citrus species	Lemon	11	Small evergreen tree, Fruit is edible, Butterfly host plant
11	Washingtonia robusta	Mexican fan palm	10	Ornamental tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Brihanmumbai Electric Supply & Transport (BEST)
	During Construction Phase: (Demand Load)	150 KW
	DG set as Power back-up during construction phase	D.G. Set of capacity 125 kVA
	During Operation phase (Connected load):	37880 KW
	During Operation phase (Demand load):	14933 KW
	Transformer:	--
	DG set as Power back-up during operation phase:	Rehabilitation: 2 DG sets of capacity 500 kVA each And Sale: 2 DG sets of capacity 750 kVA each
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	HTL passing through the plot. HTL NOC is attached as Enclosure in Forms

48.Energy saving by non-conventional method:

o Provision of LED tubes and lights for all habitable areas Stairs, Stores, MEP Rooms, toilets, lobbies
o LED Lamps with Timer Based Controls
o Provision of solar hot water system
o Provision of solar PV panels
o Provision of advanced BEE 3 star rated AC equipment's
o Use of Pumps & Motors with Premium Efficiency of 80%
o Use of energy efficient lifts with VVVF Lift Drive

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall energy saving	19.11 %
2	Energy saving due to renewable energy	4.25 %

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. 205 Lacs
	O & M cost:	Rs. 3.10 Lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Cost for Dust suppression	1.44

2	Air Environment	Air and Noise quality: Cost for Sensors for Air quality & Noise level monitoring	0.22
3	Air Environment	Air and Noise quality: By outside MoEF & CC Approved Laboratory	1.93
4	Air Environment	EMP for Batching plant	0.23
5	Water Environment	Drinking water analysis	0.03
6	Land Environment	Site Sanitation	1.43
7	Health & Hygiene	Disinfection- Pest Control at site	1.20
8	Health & Hygiene	Health-check-up of workers	7.50
9	Disaster Management	Cost towards Disaster Management	954.63

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Cost for Ambient Air quality & Noise Monitoring	On site sensors	No set up cost is involved as already considered Construction Phase	0.50
2	Cost for Ambient Air quality & Noise Monitoring	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.22
3	Cost for DG Stack Exhaust Monitoring	2 nos. of stacks	No set up cost is involved	0.10
4	Cost for Plantation	Green area	14.03	1.20
5	Cost for air cleaning system	Air cleaning system	90.00	18.00
6	Cost for Waste water treatment	Cost for Sewage Treatment Plants	390.60	58.61
7	Cost for water and Waste water Monitoring	On site sensors (for the 2 nos. of STPs)	36.00	2.00
8	Cost for water and Waste water Monitoring	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.05
9	Water Conservation (Rain Water Harvesting System)	Cost for RWH tanks	25.00	1.25
10	Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for Rain Water collected in tanks	21.00	0.07
11	Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.32
12	Solid Waste Management	Cost for Treatment of biodegradable garbage in OWC	18.00	9.31

13	Solid Waste Management	Cost for monitoring of OWC manure	No set up cost is involved	0.16
14	Use of renewable energy	Cost for Solar PV panels and Water heating system	205.00	3.10

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Two Entry & Three Exits
Parking details:	**Number and area of basement:**	3 Basements
	Number and area of podia:	Sale: 2 Podia
	Total Parking area:	53381.76 Sq. mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	Provision: 1776 Nos.
	Number of 4-Wheelers as approved by competent authority:	Provision: 1305 Nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Min 6.0 mt. driveway
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	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	-
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. Dhiraj Gada was present during the meeting along with environmental consultant M/s. Ultra Tech.

PP informed that, the project under consideration is new SRA scheme project. *PP further stated that, t*he total plot area of the project is 26,376.38 Sq.mt. having total construction area 314861.11 Sq.mt. (FSI – 143389.97 Sq.mt. + NON FSI- 147248.69 Sq.mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Rehabilitation: 1 Building with 3 Wings	-	-
Sale: 4 Towers	-	-
Tower 1, 2, 3 and 4	3 Basements (Parking) + Ground (Part Parking/ Part Commercial) + 2 Level Podium (Part Parking & Part Commercial) + 3rd and 4th Level Part Fitness + Part Residential + 5th to 40th Residential Levels each	125.00

It is noted that the project earlier considered in 111th Meeting held on 04-09-2019 & deferred with observations namely. 1) to revise the online CS with respect to proposed the total built area i.e 314861.11 Sq. Mt. 2) to submit & Upload HRC NoC 3) to submit NoC from Monorail authority 4) to explore the possibility of using 50% excess sewer water for gardens & parks of adjoining plots. 5) to submit the cross sections of STP Showing that minimum 40% area is open to sky. 6) to obtain & submit DP remarks. 7) to submit compliance of Construction & Demolition waste management 8) to explain that why CFO NoC does not mention about mechanical car parking. 9) to explain that how owners in Rehab Building will maintain mechanical car parking tower after giving possession to them. 10) to submit ESZ clearance with respect to Thane creek flamingo sanctuary. 11) Due to heavy rainfall & ill-health some committee members/experts could not attend the meeting. Therefore the presentation on traffic, geotechnical study, shadow, wind, heat island effect, contours, storm water drainage, radiations of high tension line, flora & fauna, socio-economic study etc will be apprised in future meetings. Accordingly, PP submitted the compliance which was taken on record.

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

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 upload the HRC NoC & Monorail NoC. Local planning authority to ensure the same before granting CC.
2) PP to explore measures to use maximum treated waste water to reduce disposal to 35%.
3) PP to ensure that debris management should be as per NoC.
4) PP to submit the Nalla remarks.
5) PP to submit the detail design & calculations regarding storm water drain.

FINAL RECOMMENDATION

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

Agenda of 116th Meeting (Day-2) of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 116 **Meeting Date** October 11, 2019

Subject: Environment Clearance for Proposed Residential & Commercial Project on Plot bearing Gut NO.59-A/2E,59-A/2F, 59-A/3A at Chitalsar Manpada, Sector- IV, Thane by M/s Shree Tirupati Developers

Is a Violation Case: No

1.Name of Project	Proposed Residential & Commercial Project
2.Type of institution	Private
3.Name of Project Proponent	M/s Shree Tirupati Developers (Owner- Mr. Haresh Doulatani)
4.Name of Consultant	M/s Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	Residential & Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot bearing Gut NO.59-A/2E,59-A/2F, 59-A/3A at Chitalsar, Manpada, Sector- IV, Thane
9.Taluka	Chitalsar
10.Village	Manpada
Correspondence Name:	Mr. Vinod Doulatani
Room Number:	-
Floor:	Lower ground
Building Name:	Abhimaan II
Road/Street Name:	Opp.Elegance,Teen Haath Naka
Locality:	Thane(W)
City:	Thane(W).
11.Whether in Corporation / Municipal / other area	(TMC)Thane municipal corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD received from TMC
	IOD/IOA/Concession/Plan Approval Number: S04/0004/08TMC/TD-DP/TPS/3107/19 dated 19/06/2019
	Approved Built-up Area: 109348.92
13.Note on the initiated work (If applicable)	Nil
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MHADA letter received ref. no. CO/KB/AA/ARCH/4317/2019 dated 22.02.2019 & NBWL NOC received in 45th meeting of standing committee NBWL
15.Total Plot Area (sq. m.)	17940.00 sqm
16.Deductions	40.00 M wide D.P road-4568.00 sqm
17.Net Plot area	13372.00 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 44003.48 sqm
	b) Non FSI area (sq. m.): 65345.44 sqm
	c) Total BUA area (sq. m.): 109348.92
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 44003.48 sqm
	Approved Non FSI area (sq. m.): 65345.44 sqm
	Date of Approval: 19-06-2019
19.Total ground coverage (m2)	7448.85 sqm
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	41.52 %
21.Estimated cost of the project	3870000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Sub Plot A-Bldg- No. 01 [Wing'A' & 'B']	Wing 'A' : Lower Basement + Upper Basement + Ground Flr. + 1st Podium +2nd Podium + 3rd Podium (E-Deck) + 4th To 21st Resi. + 22nd (Fire Check) Flr. + 23rd To 36th Flr.+ 37th (Amenity) Flr. Wing 'B' : Lower Basement + Upper Basement + Ground Flr. + 1st Podium +2nd Podium + 3rd Podium (E-Deck) + 4th To 21st Resi. + 22nd (Fire Check) Flr. + 23rd To 37th & 38th Flr. (Amenity) Flr.	Wing 'A' : 114.25 Mt Wing 'B' : 117.15 Mt
2	Sub Plot A- Bldg. No. 02	G+ 1st Floor	6.60 m
3	Sub Plot B- Bldg No 1	Stilt Floor + 1st to 15th floor	47.85 m

23.Number of tenants and shops	Sub Plot A-Bldg- No. 01– 428 nos, shops- 21 nos, office-42 nos Sub Plot A- Bldg. No. 02- 1 nos Sub Plot B- Bldg No 1– 198 nos Total- 690 nos
24.Number of expected residents / users	Sub Plot A-Bldg- No. 01– 2302 nos, shops- 63 nos, office-161 nos, Sub Plot A-Bldg- No. 02 - 7 nos, Sub Plot B- Bldg No 1– 990 nos , Total- 3523 nos
25.Tenant density per hectare	349 tenant/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 40 mt wide D.P road on the east side of the plot & proposed 40 mt wide D.P road on the North side of the plot
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m – 12.00 m
29.Existing structure (s) if any	Existing 1 nos of tenement
30.Details of the demolition with disposal (If applicable)	Existing tenement will be demolished as per C&D rule 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**	TMC/STP treated water
	Fresh water (CMD):	301 KLD
	Recycled water - Flushing (CMD):	154 KLD
	Recycled water - Gardening (CMD):	18 KLD
	Swimming pool make up (Cum):	5 cum
	Total Water Requirement (CMD) :	473 KLD
	Fire fighting - Underground water tank(CMD):	800 Cum
	Fire fighting - Overhead water tank(CMD):	160 Cum
	Excess treated water	211 KLD
Wet season:	**Source of water**	TMC/STP treated water/RHW tanks
	Fresh water (CMD):	301 KLD
	Recycled water - Flushing (CMD):	154 KLD
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	5 cum
	Total Water Requirement (CMD) :	455 KLD
	Fire fighting - Underground water tank(CMD):	800 Cum
	Fire fighting - Overhead water tank(CMD):	160 Cum
	Excess treated water	229 KLD
Details of Swimming pool (If any)	Approx 15m x 7m x 1.50 m	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	1.20 Blg to 20.00 Blg
	Size and no of RWH tank(s) and Quantity:	Sub Plot A-Bldg No. 01–164 cum, Sub Plot A-Bldg- No. 02 - 13 cum, Sub Plot B- Bldg No 1– 68 cum, Total- 245 cum (2 day holding capacity)
	Location of the RWH tank(s):	Ground & Basement level
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	19.00 lakhs
	Budgetary allocation (O & M cost) :	0.10 lakhs per annum
	Details of UGT tanks if any :	Domestic Tank -304 cum Flush tank -155 cum Fire Tank -800 cum RWH Tank-245 cum Location -Ground & Basement
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	Sub Plot A- 0.936 m3/s , Sub Plot B- 0.540 m3/s Total- 1.476 m3/s
	Size of SWD:	Depth-0.8 m x width-0.8 m
Sewage and Waste water	**Sewage generation in KLD:**	Sub Plot A-Bldg No. 01–300 KLD , Sub Plot A-Bldg- No. 02 - 1KLD, Sub Plot B- Bldg No 1– 125 KLD, Total- 426 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	Sub Plot A - Bldg No. 01–320 KLD , Sub Plot A-Bldg- No. 02 - 10 KLD, Sub Plot B- Bldg No 1– 140 KLD, Total- 470 KLD
	Location & area of the STP:	Ground & Basement level , area-332 sqm
	Budgetary allocation (Capital cost):	75.00 lakhs
	Budgetary allocation (O & M cost):	11.00 lakhs per annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated material, Cement Bags , Paint container (@20L), Scrap metal generated,Broken Tiles.
	Disposal of the construction waste debris:	Excavated material Shall be used on site for backfilling and for internal roads, excess Excavated material will be sent to authorized landfills . Cement Bags Empty bags to be handed over to recycler. Paint container (@20L) To be handed over to recycler. Scrap metal generated Entirely to be sold for recycling, Broken Tiles Waste tiles to be used for skirting. Broken pieces to be used for china mosaic waterproofing of terraces.-
Waste generation in the operation Phase:	**Dry waste:**	699 kg/day
	Wet waste:	1006 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	20 Kg/day
	Others if any:	E-waste will be handed over to MPCB authorized dealers

Mode of Disposal of waste:	**Dry waste:**	To be hand over to Local Recyclers for recycling
	Wet waste:	To be processed in the OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	To be used as a manure
	Others if any:	E-waste will be handed over to MPCB authorized dealers
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	85 sqm
	Area for machinery:	5 sqm for each machine
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	16.00 lakhs
	O & M cost:	3.00 lakhs per annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	RG on ground-1434.83 sqm, RG on podium-1080.68 total RG-2515.51 sqm
	No of trees to be cut :	40 trees to be cut, 60 trees to be transplanted & 20 trees to be retained on site
	Number of trees to be planted :	225 nos
	List of proposed native trees :	Same as below
	Timeline for completion of plantation :	By the end of Construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mangifera indica	Amba	20	Shadey tree , fruit bearing tree
2	Bauhinia racemosa.	Apta	8	ornamental tree
3	Acacia auriculiformis	Australian Babhul	10	ornamental tree
4	Ziziphus mauritiana	Bor	13	fruit bearing tree
5	Tamarindus indica	Chinch	10	ornamental tree
6	Terminalia catappa	Deshibadam	10	fruit bearing tree
7	Syzygium cumini	Jambhul	15	fruit bearing tree, Shadey tree
8	Millettia pinnata	Karanj	10	ornamental tree
9	Bombax ceiba	Katesavar	10	ornamental tree
10	Cocos nucifera	Naral	7	fruit bearing tree
11	Psidium guajava	Peru	15	fruit bearing tree
12	Artocarpus heterophyllus	Phanas	3	fruit bearing tree, Shadey tree
13	Spathodea campanulata	Pichkari	15	ornamental tree
14	Samanea saman	Rain Tree	11	ornamental tree
15	Moringa oleifera	Shevga	12	ornamental tree
16	Phoenix sylvestris	Shindi	10	ornamental tree
17	Annona squamosa	Sitaphal	8	fruit bearing tree
18	Leucaena leucocephala	Subabhul	10	ornamental tree
19	Borassus	Tad	6	fruit bearing tree
20	Ficus racemosa	Umber	6	ornamental tree
21	Couroupita guianensis	Vavla	8	ornamental tree, Shadey tree
22	Pithecellobium dulce	Vilayati Chinch	8	ornamental tree, Shadey 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	Leucasaspera	2.5 sqm	6 sqm
2	Bougainvillea glabra	2.5 sqm	6 sqm

3	Adhatoda Vasica	2.5 sqm	6 sqm
4	Hamelia Patens	2.5 sqm	6 sqm
5	Tecomacapensis	2.5 sqm	6 sqm

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	80 kW
	DG set as Power back-up during construction phase	100 kVA
	During Operation phase (Connected load):	Sub Plot A-Bldg No. 01 & No. 02 - 4002 kW, Sub Plot B- Bldg No 1– 2190 kW
	During Operation phase (Demand load):	Sub Plot A-Bldg No. 01 & No. 02 - 2183 kW, Sub Plot B- Bldg No 1– 584 kW
	Transformer:	3 X 1000 kVA, 1x750 kVA
	DG set as Power back-up during operation phase:	Sub Plot A-Bldg No. 01 - 2 x 320 kVA, Sub Plot A-Bldg- No. 02 - 1 x 40 kVA , Sub Plot B- Bldg No 1– 1 x 180 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1)use of Energy Efficient LED Lamps for Common & External Areas instead of CFL Lamps.
2) For Energy efficient performance we have proposed VFDs (Variable Frequency Drive) for all Motors used in Lifts, Plumbing, Fire fighting and Ventilation systems.
3)electrical equipment such as AC, Fridge, Microwave, Light Fixtures etc. which are Higher rated(5 Star) by BEE(Bureau of Energy Efficiency) in the Houses by owners for lesser power consumption.
4) We recommend solar PV solution for lighting of common areas and external lighting.
5) solar hot water is proposed

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Overall of energy Savings for Sub Plot A-Bldg No. 01 & No. 02	14%
2	Overall of energy Savings for Sub Plot B- Bldg No 1	14%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	60.00 Lakhs
	O & M cost:	3.00 lakhs per annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Developme-nt	20.00
2	Noise Environment	Noise Baricades and Green Belt	10.00
3	Water Environment	Modular STP , Drainage with sedimentation tanks	6.00
4	Good Health Practices	Site Sanitation & Health Care	4.00
5	Environment Monitoring	Air,water,noise soil monitoring during construction phase	1.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH tanks	19.00	1.00
2	Solid waste management	OWC	16.00	3.00
3	Wastewater management	STP	75.00	11.00
4	Energy savings	Solar PV and Hot water & LED	60.00	3.00
5	Green belt	Landscaping	50.00	10.00

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:	40 mt wide D.P road (5 entry/exit)

Parking details:	**Number and area of basement:**	14591.98 sqm
	Number and area of podia:	16118.51 sqm
	Total Parking area:	31267.03 sqm including ground floor
	Area per car:	33.00 sqm in Basement , 33.00 for podium
	Area per car:	33.00 sqm in Basement , 33.00 for podium
	Number of 2-Wheelers as approved by competent authority:	Sub Plot A-Bldg No. 01–610 nos, Sub Plot A-Bldg- No. 02 - 1 nos, Sub Plot B- Bldg No 1– 198 nos, Total- 809 nos
	Number of 4-Wheelers as approved by competent authority:	Sub Plot A-Bldg No. 01–1083 nos, Sub Plot A-Bldg- No. 02 - 2 nos, Sub Plot B- Bldg No 1– 109 nos, Total- 1194 nos
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m wide internal road
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	0.19 Km from SGNP, NBWL NOC received in the 45th standing commitee of NBWL
	Category as per schedule of EIA Notification sheet	8(a), B2
	Court cases pending if any	NA
	Other Relevant Informations	The project was Appraised in 42nd SEAC II meeting dated 04.01.2016 wherein the project was deferred with some compliance points. we have now complied with those points. there are changes in planning so we are now applying with the new layouts on ECMPCB portal.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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

PP informed that, the project under consideration is *proposed* new residential & commercial project*. PP further stated that, t*he total plot area of the project is 17940.00 Sq.mt having total construction area 109348.92 Sq.mt. (FSI – 44003.48 sq.mt +NON FSI-65345.44 Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Sub Plot A-Bldg- No. 01 [Wing'A' & 'B']	Wing 'A' : Lower Basement + Upper Basement + Ground Flr. + 1st Podium +2nd Podium + 3rd Podium (E-Deck) + 4th To 21st Resi. + 22nd (Fire Check) Flr. + 23rd To 36th Flr.+ 37th (Amenity) Flr. Wing 'B' : Lower Basement + Upper Basement + Ground Flr. + 1st Podium +2nd Podium + 3rd Podium (E-Deck) + 4th To 21st Resi. + 22nd (Fire Check) Flr. + 23rd To 37th & 38th Flr. (Amenity) Flr. Wing 'A' : 114.25 Mt Wing 'B' :	117.15
Sub Plot A- Bldg. No. 02	G+ 1st Floor	6.60 m
Sub Plot B- Bldg No 1	Stilt Floor + 1st to 15th floor	47.85 m

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

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) As shown during the presentation, PP to upload the Layout showing location of services including environmental infrastructure on the website immediately. PP to produce the same to SEIAA.
2) PP to abide the all conditions laid down in NoC of National Board for Wildlife (NBWL).
3) PP to upload the plot wise RG details.
4) PP to ensure that 40% area of all STPs should be open to sky for adequate ventilation.
5) PP to submit the undertaking regarding no construction will be carried out on slop 1:5 or more than 1:5.
6) The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.
7) PP to submit CER prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertaken under CER to be carried out in consultation with Municipal Corporation or collector or Environment Department.

FINAL RECOMMENDATION

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

Agenda of 116th Meeting (Day-2) of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 116 **Meeting Date** October 11, 2019

Subject: Environment Clearance for Proposed Layout with Residential & Partly Commercial Building permission at village Kopar, Kalher Tal Bhiwandi, Dist- Thane by M/s. Adrika Developers Pvt. Ltd

Is a Violation Case: No

1.Name of Project	Proposed Layout with Residential & Partly Commercial Building permission at village Kopar, Kalher Tal Bhiwandi, Dist- Thane by M/s. Adrika Developers Pvt. Ltd
2.Type of institution	Private
3.Name of Project Proponent	Mr Deepak Garodia by M/s. Adrika Developers Pvt Ltd
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd. B-1003,Enviro House, 10th floor, Western Edge -II Western Express Highway, Borivali (E), Mumbai- 400 066 hkdesai5@gmail.com,; info@eaepl.com
5.Type of project	Residential cum commercial
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 S. No. 5/4, 5/7, 5/8, 5/11, 5/12, 5/15, 7/1, 7/2, 7/3, 7/4, 7/5, 7/6, 7/8, 7/9, 7/10, 7/11, 7/12, 7/13, 7/14, 7/15, 7/16, 7/18, 7/19, 7/20, 7/20A, 7/20B, 7/22, 7/23A, 7/24, 7/25, 7/26, 7/27, 7/28, 7/29A, 7/29B, 8/1A, 8/2B, 9/1, 9/2, 9/3, 9/4, 9/5, 9/6, 9/7A, 9/7B, 9/8, 9/9, 9/10, 9/11, 10/1, 11/1, 11/2, 11/3, 11/4, 11/5, 11/6, 11/7, 11/8, 11/8A, 11/8B, 11/8C, 11/9, 11/10, 11/11, 11/12, 11/13, 11/14, 11/15, 11/16, 11/17, 11/18, 11/19A, 11/19B, 11/20, 11/21, 11/22, 11/23, 11/25, 12/1, 12/2, 12/3, 12/4, 12/5, 12/5A, 12/6, 12/8, 12/9, 12/10, 12/11, 12/13, 12/14, 12/15, 12/18, 12/19, 13/1, 13/2, 13/5, 13/6, 13/7, 13/8, 65/B at village Kopar and S.No. 245/9, 246/1C, 246/2B, 247/1, 247/2A, 247/2B, 247/2C, 247/4A, 247/4B, 247/5, 247/7/A/1, 247/7/B, 247/8, 247/9A, 247/10, 247/12, 247/13A, 247/13B/1, 247/14, 247/15, 247/17, 247/18, 247/19, 247/20 at village Kalher, Tal Bhiwandi, Dist- Thane in SPA area of Mumbai Metropolitan Region Development Authority.
9.Taluka	Bhiwandi
10.Village	Kopar and Kalher
Correspondence Name:	Mr Jay Vora
Room Number:	276
Floor:	First floor
Building Name:	Lawrence & Mayo House
Road/Street Name:	Dr D N Road
Locality:	Fort
City:	Mumbai 400001
11.Whether in Corporation / Municipal / other area	Bhiwandi Surrounding Notified Area under MMRDA as the special planning authority
12.IOD/IOA/Concession/Plan Approval Number	yes
	IOD/IOA/Concession/Plan Approval Number: SROT/BSNA/2501/BP/ KOPAR – KALHER -01/1646/2019
	Approved Built-up Area: 116396.95
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	SROT/BSNA/2501/BP/ KOPAR – KALHER -01/1646/2019
15.Total Plot Area (sq. m.)	81,254.00 sq m
16.Deductions	Deductions for a) Existing road area: 1762.29 sq m b) Proposed DP road: 10554.86 sq m c) Any reservation (garden): 3339.72 sq m d) Primary school: 2824.73 sq m Total Deduction: 18,481.60 sq m
17.Net Plot area	62,772.40 sq m

18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,16,396.95
	b) Non FSI area (sq. m.): 31,450.87
	c) Total BUA area (sq. m.): 147847.82
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 1,16,396.95
	Approved Non FSI area (sq. m.): 31,450.87
	Date of Approval: 27-08-2019
19.Total ground coverage (m2)	19,814.93
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	24.3
21.Estimated cost of the project	3408352393

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Type A1, A2, A3, A4	St + 20 floors	59.95
2	Type B1, B2	St + Shop part + 20 floors	59.95
3	Type B3	Type B3	59.95
4	Type C	St + 18 floors	54.25
5	Type D1, D2, D3, D4	St + 20 floors	59.95
6	Type E	St + 19 floors	59.75
7	commercial C1	Ground floor	4.20
8	Commercial C2	GROUND (SHOP) + STILT PART + 5TH FLR	19.15
9	Club house	GROUND + 1ST PART FLOOR	9
10	Total buildings: 15 nos.	-	-

23.Number of tenants and shops	Residential: 2930 nos. Shops: 28 nos.
24.Number of expected residents / users	Residential: 11,949 nos; Shops: 324 nos & 8957 sq m: 1694 nos.
25.Tenant density per hectare	360
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	30 m wide Old Mumbai Agra 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	Existing structure single storey to be demolished
30.Details of the demolition with disposal (If applicable)	Demolition material will be used on site for site filling of low line area

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**	BNMC + Recycled water
	Fresh water (CMD):	1064
	Recycled water - Flushing (CMD):	546
	Recycled water - Gardening (CMD):	113
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1723
	Fire fighting - Underground water tank(CMD):	850
	Fire fighting - Overhead water tank(CMD):	120
	Excess treated water	658
Wet season:	**Source of water**	BNMC + Recycled water + RWH
	Fresh water (CMD):	1064
	Recycled water - Flushing (CMD):	546
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1610
	Fire fighting - Underground water tank(CMD):	850
	Fire fighting - Overhead water tank(CMD):	120
	Excess treated water	771
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:**	0.4 m to 1.6 m
	Size and no of RWH tank(s) and Quantity:	120 KLD, 20 KLD, 80 KLD, 30 KLD, 130 KLD AND 5 nos.
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	Rs 46 lakhs
	Budgetary allocation (O & M cost) :	Rs 4.6 lakhs
	Details of UGT tanks if any :	Domestic: 1114 KLD Flushing: 580 KLD Firefighting: 850 KLD
35.Storm water drainage	**Natural water drainage pattern:**	South to North
	Quantity of storm water:	1.41 m3/sec
	Size of SWD:	Width: 0.60 m x Depth: 0.74 m
Sewage and Waste water	**Sewage generation in KLD:**	1466
	STP technology:	MBBR
	Capacity of STP (CMD):	6 nos. and Total capacity: 1490; 680 KLD, 120 KLD, 460 KLD, 130 KLD,70 KLD, 30 KLD
	Location & area of the STP:	below ground
	Budgetary allocation (Capital cost):	Rs 108 lakhs
	Budgetary allocation (O & M cost):	Rs 36 lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Empty bags: 59140, 2. Steel: 8.9 MT, aggregates 17.7 Broken tiles 3143 sq m, Paint cans 2217
	Disposal of the construction waste debris:	1. Empty bags to be handed over to local recyclers, 2. Steel to be handed over to local recyclers, 3. Aggregates to be used for layering internal roads, 4. Broken tiles to be used for terraces, 5. Empty paint cans to be sold.
Waste generation in the operation Phase:	**Dry waste:**	2,565 kg/day
	Wet waste:	3,846 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	74 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to recyclers.
	Wet waste:	Biodegradable waste will be processed in OWC and manure so obtained will be used for landscaping
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	WILL BE USED AS MANURE
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	102 sq m
	Area for machinery:	5 sq m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 51 lakhs
	O & M cost:	Rs 10.2 lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	13,547 sq m
	No of trees to be cut :	NA
	Number of trees to be planted :	780 nos.
	List of proposed native trees :	as given below
	Timeline for completion of plantation :	Before the completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Neolamarckia cadamba	Kadam	403	Tropical and evergreen
2	Azadirachta indica	Neem	250	tropical and medicinal
3	Saraca asoca	Sita Ashoka	65	rain-forest tree
4	Magnolia champaca	Son chafa	15	tropical and flowering
5	Albizia lebbeck	Shirish	47	tropical
6	total trees planted	-	780	-
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	80 kW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	9,266.86 kW
	During Operation phase (Demand load):	6,006.03 kW
	Transformer:	3 X 1000 KVA + 1 X 315 KVA, 2 X 1000 KVA + 1 X 630 KVA, 1 X 630 KVA, 2 X 1000 KVA
	DG set as Power back-up during operation phase:	1 x 500 KVA + 1 X 320 KVA, 2 X 320 KVA, 250 KVA, 160 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Saving in Electrical Energy/Annum with use of CFL, T5 fittings, LED lights & 20% solar lamps, Timer for external lighting and common area, Solar hot water and part light/fan for each flat.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total % Savings	21.02

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 48 lakhs
	O & M cost:	Rs 8 lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	0.5
2	Noise Environment	Noise Barricades and Green Belt Developments	1

3	Water Environment	Modular STP, Drainage with sedimentation tanks	0.5
4	Good Health Practices	Site Sanitation & Health Care	1
5	Environment Monitoring	Air, water, noise soil monitoring during construction phase	2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Rain Water Harvesting	RWH tanks	46	4.6
2	Waste water management	STP	108	36
3	Solid waste management	OWC	51	10.2
4	Landscaping	OWC	25	6
5	Energy conservation	Solar saving	48	8

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:	3 nos.

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	26,711.02 sq.m
	Area per car:	32 sq m
	Area per car:	32 sq m
	Number of 2-Wheelers as approved by competent authority:	3224 nos.
	Number of 4-Wheelers as approved by competent authority:	1235 nos.
	Public Transport:	-
	Width of all Internal roads (m):	12m & 6m wide drive way
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National park 8.5 km
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	29-08-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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

PP informed that, the project under consideration is new residential cum commercial project. *PP further stated that, t*he total plot area of the project is 81,254.00 Sq.mt. having total construction area 147847.82 Sq.mt. (FSI - 1,16,396.95 Sq.mt. + NON FSI- 31,450.87 Sq.mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Type A1, A2, A3, A4	St + 20 floors	59.95
Type B1, B2	St + Shop part + 20 floors	59.95
Type B3	Type B3	59.95
Type C	St + 18 floors	54.25
Type D1, D2, D3, D4	St + 20 floors	59.95
Type E	St + 19 floors	59.75
commercial C1	Ground floor	4.20
Commercial C2	GROUND (SHOP) + STILT PART + 5TH FLR	19.15
Club house	GROUND + 1ST PART FLOOR	9
Total buildings: 15 nos.	-	-

It is noted that the project earlier considered in 99th Meeting held on 15-05-2019 & deferred as PP was absent.

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

DECISION OF SEAC

Committee noted that the two plots on which the PP has presented the project are prima facie disjointed plots not having any common boundary. There seems to be a water body/pond about 40 meter wide between these two plots prima facie belonging to State. The culvert over it seems to be a public way, not of exclusive ownership of the PP. Both the plots also are not prima facie seen to be officially amalgamated by competent Revenue/ Survey department authority. PP to submit clarification on al above points along with supporting documentary evidence and explain how common layout with internal connectivity within these two plots with internal roads of PP's ownership will work out.

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

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 116th Meeting (Day-2) of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 116 **Meeting Date** October 11, 2019

Subject: Environment Clearance for Residential building with shopline

Is a Violation Case: No

1.Name of Project	Proposed residential building with shop line
2.Type of institution	Private
3.Name of Project Proponent	Homage Developers
4.Name of Consultant	EIA Coordinator Sourabh Jaiswar; Pollution and Ecology Control Services
5.Type of project	Residential commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S.No.73 H.No.1,3; S.No.74 H.No.12,13, 14/2, 15; S.No.75 H.No.1,2; S.No.72B H.No.21, 22, 23, 24, 26 at Village Chulane, Tal- Vasai, Dist- Palghar
9.Taluka	Vasai
10.Village	Chulane
Correspondence Name:	Mr. Valerian Dias, Homage Developers
Room Number:	-
Floor:	3rd Floor
Building Name:	Homage Bhavan, Richmond Town-II
Road/Street Name:	-
Locality:	Bhabola Naka,
City:	Vasai Road (W)
11.Whether in Corporation / Municipal / other area	Vasai Virar City Municipal Corporation (VVCMC)
12.IOD/IOA/Concession/Plan Approval Number	approval received by VVCMC dated 15-4-2017
	IOD/IOA/Concession/Plan Approval Number: VVCMC/NR/153/2017
	Approved Built-up Area: 46978.51
13.Note on the initiated work (If applicable)	19255.46 sq.m. of constructed area for existing building as per the received approval (Bldg. No. 1, 2,4,5,7)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	20135.00 sq.m.
16.Deductions	Deduction for encroachment area = 255.63 sq.m
17.Net Plot area	19879.37sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 33092.77 sq.m.
	b) Non FSI area (sq. m.): 14594.64 sq.m.
	c) Total BUA area (sq. m.): 47687.41
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 46978.51
	Approved Non FSI area (sq. m.): 25624.48
	Date of Approval: 15-04-2017
19.Total ground coverage (m2)	4650.19 sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.09%
21.Estimated cost of the project	1750000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Existing Building 1 Wing A,B	G+7	G+7
2	Existing Building 2	St +4	14.80
3	Existing Building 4	Gr +7	23.90
4	Existing Building 5	Gr +7	23.90
5	Existing Building 7	Gr +7	23.90
6	Proposed Building 3 wing A	Gr + 21	70.00
7	Proposed Building 3 wing B,C,D,E	St + 13	44.97
8	Proposed Bungalow	Gr + 3	13.70
9	Proposed RH 1 & RH2	St.+2pt	9.25
10	Proposed CFC Bldg.	G+3pt	16.05

23.Number of tenants and shops	No. of Tenements: Existing =237 Nos., Proposed =277 Nos.(including Bungalows & Row Houses) Total = 514 Nos. Shops: Existing =29 Nos., Proposed =17Nos. Total = 46 Nos. Community Hall (CFC)= 1 No.
24.Number of expected residents / users	Existing = 1272 Nos, Proposed = 1525 Nos. Grand Total:2797 Nos.
25.Tenant density per hectare	258nos. /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)	30.00 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	>7.5 m
29.Existing structure (s) if any	Bldg No. 1,2,4,5,7 are constructed., occupation certificate received & occupied
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	VVCMC/Recycled water
	Fresh water (CMD):	Existing = 108, Proposed = 127, Total = 235
	Recycled water - Flushing (CMD):	Existing = 56 Proposed = 66, Total = 122
	Recycled water - Gardening (CMD):	Existing = 03, Proposed = 12, Total = 15
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	Existing = 167, Proposed = 205, Total = 372
	Fire fighting - Underground water tank(CMD):	475 cum
	Fire fighting - Overhead water tank(CMD):	345 cum
	Excess treated water	120
Wet season:	**Source of water**	VVCMC/Recycled water/RWH Tank
	Fresh water (CMD):	Existing = 108, Proposed = 127, Total = 235
	Recycled water - Flushing (CMD):	Existing = 56 Proposed = 66, Total = 122
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	Existing = 164, Proposed = 193, Total = 357
	Fire fighting - Underground water tank(CMD):	475 cum
	Fire fighting - Overhead water tank(CMD):	345 cum
	Excess treated water	135
Details of Swimming pool (If any)	Nil	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4- to 5.0 m
	Size and no of RWH tank(s) and Quantity:	176 cum
	Location of the RWH tank(s):	at ground level
	Quantity of recharge pits:	nil
	Size of recharge pits :	nil
	Budgetary allocation (Capital cost) :	Rs. 14.00 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 2.00 Lakhs
	Details of UGT tanks if any :	domestic tank = 235 cum flushing tank = 137 cum fire tank = 475 cum
35.Storm water drainage	**Natural water drainage pattern:**	will be maintained
	Quantity of storm water:	total actual discharge= 0.45 cum/sec, total design discharge = 1.27 cum/sec
	Size of SWD:	600 x 800 mm
Sewage and Waste water	**Sewage generation in KLD:**	281
	STP technology:	MBBR
	Capacity of STP (CMD):	300 KLD
	Location & area of the STP:	ground level
	Budgetary allocation (Capital cost):	Rs. 55.00 lakhs
	Budgetary allocation (O & M cost):	Rs. 7.00 lakhs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1. Steel will be sold for recycling,2. Cement waste will be used for bunding purpose,temporary plaster concrete works. 3. Waste sand will be used for bedding for flooring purpose. It will also be used as filler material for toilets waterproofing.4. Aggregates will be used as a layer for internal roads and building boundary wall., 5.Wood will be sold for recycling, 6. Waste tiles will be used as china mosaic
	Disposal of the construction waste debris:	To be Disposed as per construction & demolition waste rules- 2016 at designated disposal site
Waste generation in the operation Phase:	**Dry waste:**	Existing = 251, Proposed = 298, Total = 549Kg/Day
	Wet waste:	Existing = 366, Proposed = 424, Total = 790Kg/Day
	Hazardous waste:	nil
	Biomedical waste (If applicable):	nil
	STP Sludge (Dry sludge):	Existing = 8Kg/Day, Sale = 9Kg/day, Total = 17Kg/Day
	Others if any:	Nil

Mode of Disposal of waste:	**Dry waste:**	To be managed through recyclers.
	Wet waste:	To be processed in the Organic Waste Converter and manure so obtained will be used for landscaping.
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	To be used as manure
	Others if any:	Nil
Area requirement:	**Location(s):**	at ground level
	Area for the storage of waste & other material:	51.00 sq.m.
	Area for machinery:	5.00 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 8.00 Lakhs
	O & M cost:	Rs. 2.00 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	2981.90 sq.m. (15.00%)
	No of trees to be cut :	nil
	Number of trees to be planted :	150 Nos.
	List of proposed native trees :	As below
	Timeline for completion of plantation :	at the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem Tree	10	Noise reduction
2	Michelia champaca	PiwalaChampa / Sonchapha	10	Flowering
3	Alistonia scholaris	Devils tree / Satvin	11	shaded
4	Pongamia pinnata	Karanj	10	shaded
5	Polyalthia longifolia	Mast Tree	11	noise reduction
6	Cassia fistula	Indian Laburnum	10	shaded tree
7	Cycas revoluta	Fern Palm	11	ornamental
8	Mimusops elengi	Bakul	10	flowering
9	Roystonea regia	royal palm	11	ornamental
10	Barreingtonia racemosa	Samundraphal	10	flowering
11	Millingtonia hortensis	Indian Cork Tree	10	shaded
12	Grevillea robusta	Silver Oak	11	shaded
13	Bauhinia purpuria	Purple Orchid Tree	10	shaded
14	Saraca asoca	Ashoka Tree	10	shaded
15	Dalbergia sissoo	Shisav	5	Medicinal value, Bird attracting species
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	Ocimum tenuiflorum	-	-
2	Bambusa dendrocalmus	-	-
3	Catharanthus roseus	-	-
4	Jasminum sambac	-	-
5	Passiflora ligularis	-	-
6	Nyctanthes arbortristis	-	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	80 KW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	7209 KW
	During Operation phase (Demand load):	3019 KW
	Transformer:	-
	DG set as Power back-up during operation phase:	100 and 125 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Use of T8 florescent lamp into T5 CFL lights
VFD's on Lifts
Using BEE start rated equipment

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	as above	total saving = 11.00%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 30.00 lakhs
	O & M cost:	Rs. 1.50 lakhs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	air environment	dust suppression	3.5
2	land environment	site sanitation	3.00
3	environmental monitoring	analysis of air, water,soil,noise etc.	7.50
4	EHS	disinfection	2.50
5	EHS	health check up	3.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	water environment	rain water harvesting	14.00	2.00
2	solid waste	MSW	8.00	2.00
3	water environment	STP	50.00	7.00
4	energy saving	energy conservation	30.00	1.50
5	land environment	landscaping	5.00	1.00

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:	3 no.of entry exits through 30.00 m wide DP Road
Parking details:	**Number and area of basement:**	nil
	Number and area of podia:	1 no. (3572.29 sq.m.)
	Total Parking area:	3561.25 sq.m.
	Area per car:	as per DCR
	Area per car:	as per DCR
	Number of 2-Wheelers as approved by competent authority:	Required = 511 Nos. Provided = 512 Nos.
	Number of 4-Wheelers as approved by competent authority:	Required = 275 Nos. Provided = 280 Nos.
	Public Transport:	nil
	Width of all Internal roads (m):	6 to 9 m
	CRZ/ RRZ clearance obtain, if any:	nil

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi National Park = 8.39 km (from ESZ boundary)
	Category as per schedule of EIA Notification sheet	Category B, Schedule 8(a)
	Court cases pending if any	no
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	19-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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

PP informed that, the project under consideration is residential commercial project. *PP further stated that, t*he total plot area of the project is 20135.00 Sq.mt. having total construction area 47687.41 Sq.mt. (FSI - 33092.77 Sq.mt. + NON FSI- 14594.64 Sq.mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Existing Building 1 Wing A,B	G+7	G+7
Existing Building 2	St +4	14.80
Existing Building 4	Gr +7	23.90
Existing Building 5	Gr +7	23.90
Existing Building 7	Gr +7	23.90
Proposed Building 3	wing A Gr + 21	70.00
Proposed Building 3	wing B,C,D,E St + 13	44.97
Proposed Bungalow	Gr + 3	13.70
Proposed RH 1 & RH2	St.+2pt	9.25
Proposed CFC Bldg.	G+3pt	16.05

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

DECISION OF SEAC

Committee noted that, the 3 plots amalgamated into one plot. It is noted that the 3rd plot is amalgamated in 17/10/2013. Committee further noted that, the 3rd plot is not in the possession & also not in the name of PP, but it is in the name of his cousin- Mr Osban Dias & he is not even partner in M/s Homage developers nor he applied for this project. Therefore unless Mr Osban dias also become PP with present PP, all three plot cannot be treated as one plot after amalgamation by M/s Homage developers & hence, project cannot be considered at this stage. In view of this***, the proposal is deferred and shall be considered only after the compliance of above observations***.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 116th Meeting (Day-2) of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 116 **Meeting Date** October 11, 2019

Subject: Environment Clearance for Environment Clearance for Proposed Residential and commercial development

Is a Violation Case: No

1.Name of Project	Proposed Residential and commercial development
2.Type of institution	Private
3.Name of Project Proponent	Godrej Projects Development Limited
4.Name of Consultant	Aditya Environmental Services Pvt. Ltd.
5.Type of project	Redevelopment 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 Bearing CTS. No 673, 673/1 to 20 and 783
9.Taluka	Chembur East
10.Village	Borla
Correspondence Name:	Mr. Uday Chitnis, Mr. Amitesh Shah, Mr. Priyamvada Navet
Room Number:	0
Floor:	6th floor
Building Name:	Godrej One
Road/Street Name:	Eastern Express Highway
Locality:	Vikhroli East
City:	Mumbai
11.Whether in Corporation / Municipal / other area	Mumbai
12.IOD/IOA/Concession/Plan Approval Number	To be applied
	IOD/IOA/Concession/Plan Approval Number:
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	To be applied
15.Total Plot Area (sq. m.)	7872
16.Deductions	139
17.Net Plot area	7733
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 23488
	b) Non FSI area (sq. m.): 21512
	c) Total BUA area (sq. m.): 45000
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 13-05-2019
19.Total ground coverage (m2)	5342
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	69.08
21.Estimated cost of the project	3700000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	TOWER 1	2 Basements + 2 Floor Retail + 1 Stilt +1 Podium + 16 Residential Floors + Terrace	70
2	TOWER 2	2 Basements + 2 Floor Retail + 1 Stilt +1 Podium + 9 Residential Floors + Terrace	46
3	TOWER 3	2 Basements + 2 Floor Retail + 1 Stilt +1 Podium + 16 Residential Floors + Terrace	70

23.Number of tenants and shops	Residential: 162 nos. Shops: 18 nos.
24.Number of expected residents / users	Occupant in apartment: 960 nos. Occupant for retail: 36 nos.
25.Tenant density per hectare	205
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	36 m wide existing road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	R.K Studio
30.Details of the demolition with disposal (If applicable)	As per Solid waste management rules will be disposed off to authorized site

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM + STP recycled water
	Fresh water (CMD):	120
	Recycled water - Flushing (CMD):	65
	Recycled water - Gardening (CMD):	8
	Swimming pool make up (Cum):	13
	Total Water Requirement (CMD) :	206
	Fire fighting - Underground water tank(CMD):	300 KLD
	Fire fighting - Overhead water tank(CMD):	10 KLD FOR EACH TOWER.
	Excess treated water	74 KLD
Wet season:	**Source of water**	MCGM + STP recycled water
	Fresh water (CMD):	120
	Recycled water - Flushing (CMD):	65
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	13
	Total Water Requirement (CMD) :	198
	Fire fighting - Underground water tank(CMD):	300 KLD
	Fire fighting - Overhead water tank(CMD):	10 KLD FOR EACH TOWER.
	Excess treated water	167 KLD
Details of Swimming pool (If any)	16.7 M X 8.7 M CAPACITY - 175 M3	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5M
	Size and no of RWH tank(s) and Quantity:	01 NO TANK OF CAPACITY- 86 M3
	Location of the RWH tank(s):	IN BASEMENT 1
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	20 LAKHS
	Budgetary allocation (O & M cost) :	1 Lakh
	Details of UGT tanks if any :	FOR ROOF RAINWATER HARVESTING TANK IS PROPOSED FOR 2 DAYS STORAGE AS PER MoEF NORMS IN BASEMENT 1
35.Storm water drainage	**Natural water drainage pattern:**	WILL BE MAINTAINED
	Quantity of storm water:	70 LPS SURAFCE RUNOFF IS GENERATED @50 MM/HR
	Size of SWD:	450 MM WIDE SWD CHANNEL TO BE PROVIDED FOR SURFACE RUNOFF
Sewage and Waste water	**Sewage generation in KLD:**	162 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	01 No. & 162 KLD
	Location & area of the STP:	Below Ground AREA 138 M2
	Budgetary allocation (Capital cost):	Rs. 20 LAKHS
	Budgetary allocation (O & M cost):	Rs. 1.5 Lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction Debris
	Disposal of the construction waste debris:	Disposal of construction waste will be as per Construction and Demolition and De-silting Waste (Management and Disposal) Rules 2006 at the designated site as directed by the MCGM.
Waste generation in the operation Phase:	**Dry waste:**	330 Kg/day
	Wet waste:	261 Kg/day
	Hazardous waste:	0
	Biomedical waste (If applicable):	0
	STP Sludge (Dry sludge):	8 Kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to authorize vendors
	Wet waste:	Wet Garbage will be treated in Mechanical Composting Unit. Organic Waste Convertor (OWC) and the compost generated would be used as manure for gardening purpose and excess would be sold to authorize vendors.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dry sludge would be used as manure for gardening purpose and excess would be sold to authorize vendors.
	Others if any:	NA
Area requirement:	**Location(s):**	Below Ground
	Area for the storage of waste & other material:	Area 50 Sq. m
	Area for machinery:	50 sq.m including area for machinery
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10 Lakh
	O & M cost:	Rs. 1 Lakh

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1408 Sq. m
	No of trees to be cut :	0
	Number of trees to be planted :	70
	List of proposed native trees :	Given In table 45
	Timeline for completion of plantation :	After Completion of construction work

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Saraca asoka	Sita Ashok	7	Shady tree with red-yellow flowers
2	Mimusops elengi	Bakul	5	Shady Tree, white fragrant flowers
3	Azadiracta indica	Neem	6	Large Tree with medicinal value
4	Nyctanthes arbortristis	Parijatak	5	Large tree, good for roadside plantation
5	Anthocephallus cadamba	Kadamb	5	Shady, large tree, ball shaped flowers.
6	Mesua ferrea	Nagkesur	8	widely cultivated as an ornamental due to its graceful shape, grayish-green foliage
7	Michelia champaca	Champaka	7	large evergreen tree
8	Lagestroemia speciosa	Taman	9	Medium-sized tree, with smooth, flaky bark. leaves are deciduous
9	Ficus glomerata	Umber	2	Evergreen and deciduous tree
10	Ficus bengalensis	Wad	1	Fruit bearing evergreen tree
11	Ficus religiosa	Pimpal	1	Dust Resistant and Local Variety
12	Terminalia crenulata	Ain	4	deciduous tree
13	Cocos nucifera	Coconut	3	Fruit bearing evergreen tree
14	Emblica officinalis	Awla	2	fruits used for preventative and therapeutic purposes
15	Phoenix dactylifera	Khajur	2	flowering plant species
16	Plumeria	Chafa	2	Flower bearing deciduous tree
17	Bauhinia purpurea	Kanchan	1	medium-sized deciduous fast-growing
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	NIL	O	O

47.Energy

Power requirement:	**Source of power supply :**	TATA/ADANI
	During Construction Phase: (Demand Load)	400 KW
	DG set as Power back-up during construction phase	150 KW
	During Operation phase (Connected load):	3128 KW
	During Operation phase (Demand load):	1674 KW
	Transformer:	(2x1000 & 1x630) kVA dry type transformer
	DG set as Power back-up during operation phase:	1no. 1250 kVA for common area load only
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Yes

48.Energy saving by non-conventional method:

Solar PV System

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Common area lighting i.e. Staircase, Corridor, Lift shaft, Electrical & ELV shaft etc. on solar PV	10 %

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. 25 lacs
	O & M cost:	Rs. 2 lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water Environment	Drinking water	2
2	Health	Sanitation, Health check up	15
3	Air Environment	Water for dust suppression	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 & Sewerage network	MBBR	20	1.5
2	RWH System	RWH tanks	20	1
3	Environmental Monitoring	-	0	1.5
4	Solid Waste Management	OWC	10	1
5	Solar Installation	Solar Panel	20	1
6	Landscaping	-	25	2

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Existing 36 meter DP Road
Parking details:	**Number and area of basement:**	2 Basement of 5342 Sq.m each
	Number and area of podia:	1 Podium of 2132 Sq.m
	Total Parking area:	12815 Sq.m
	Area per car:	30 Sq.m
	Area per car:	30 Sq.m
	Number of 2-Wheelers as approved by competent authority:	0
	Number of 4-Wheelers as approved by competent authority:	373
	Public Transport:	MCGM Public Transport
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	NA

	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category 'B' 8(a) {Building and Construction projects = 20,000 sq. m. and <1,50,000 sq. m. of built-up area }
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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

PP informed that, the project under consideration is *redevelopment project. PP further stated that, t*he total plot area of the project is 7795Sq.mt having total construction area 44655.13 Sq.mt.(FSI – 23661.71 sq.mt +NON FSI- 20993.42Sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
TOWER 1	2 Basements + 2 Floor Retail + 1Stilt +1 Podium + 16 Residential Floors + Terrace	70
TOWER 2	2 Basements + 2 Floor Retail + 1Stilt +1 Podium + 9 Residential Floors + Terrace	46
TOWER 3	2 Basements + 2 Floor Retail + 1 Stilt +1 Podium + 16 Residential nFloors + Terrace	70

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. Layout showing location of services including environmental infrastructure has

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 upload the full time employment certificate of the person representing the PP.
2) Committee noted that, PP have circulated the revised CS,PP to revised the same online also.
3) PP to mark the road level along with storm water drainage level on contour map.
4) PP to submit the clear DP remark plan showing clear plot boundary.
5) Committee noted that, there is inconsistency in the figures of major parameters, it is not possible to apprise at this stage. PP to come up with final plan

FINAL RECOMMENDATION

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

Agenda of 116th Meeting (Day-2) of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 116 **Meeting Date** October 11, 2019

Subject: Environment Clearance for Proposed Residential project - Shree Ganesh CHS (Ltd.) at plot bearing 471-A(pt), 475(pt) & 476 (pt) of Kandivali, Survey No.157, Jagdish Shetty Marg, Ganesh Nagar, Kandivali (West), Mumbai-400 067 by M/s Shrreeya Developers

Is a Violation Case: No

1.Name of Project	Shree Ganesh CHS (Ltd.)
2.Type of institution	Private
3.Name of Project Proponent	M/s Shrreeya Developers
4.Name of Consultant	M/s. Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	SRA scheme
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	471-A(pt), 475(pt) & 476 (pt) of Kandivali, Survey No.157, Jagdish Shetty Marg, Ganesh Nagar, Kandivali (West), Mumbai-400 067.
9.Taluka	Kandivali
10.Village	Ganesh Nagar
Correspondence Name:	M/s Shrreeya Developers
Room Number:	102
Floor:	-
Building Name:	Shree Shiv Sainath SRA CHS Ltd
Road/Street Name:	T.P.S.VI Road
Locality:	Santacruz
City:	Mumbai
11.Whether in Corporation / Municipal / other area	Municipal Corporation of greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	LOI received
	IOD/IOA/Concession/Plan Approval Number: LOI received vide letter no. SRA/ENG/1367/RS/STGL/ML/PL/LOI dtd 25.10.2017
	Approved Built-up Area: 27277.28
13.Note on the initiated work (If applicable)	Construction of building no. 1 has been commenced.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI received dtd 25.10.2017 vide letter no. SRA/ENG/1367/RS/STGL/ML/PL/LOI
15.Total Plot Area (sq. m.)	6890.00 sq.m
16.Deductions	1085.15 sq.m
17.Net Plot area	5804.85 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 27277.28
	b) Non FSI area (sq. m.): 13153.16
	c) Total BUA area (sq. m.): 40430.44
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 29584.55
	Approved Non FSI area (sq. m.): -
	Date of Approval: 25-10-2017
19.Total ground coverage (m2)	2657.93 sq.m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	45.78 %
21.Estimated cost of the project	1891500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab Bldg 1	Gr + 22 floors	69.80
2	Sale bldg 2 (Wing A,B)	Gr + 22 floors	69.80
3	Sale Bldg 3	Gr + 22 floors	69.80
4	Parking Tower (2 nos)	-	69.80

23.Number of tenants and shops	Rehab: Residential: 283 PAP: 73 Commercial: 41 R/C: 4 PAP Commercial: 28 BWS: 14 Sale: Residential: 405 Commercial: 18
24.Number of expected residents / users	3476 nos.
25.Tenant density per hectare	1318 Tenants/hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	13.40 m wide D.P. road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9.00m
29.Existing structure (s) if any	Nil
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	MCGM/STP Treated water
	Fresh water (CMD):	301
	Recycled water - Flushing (CMD):	153
	Recycled water - Gardening (CMD):	2
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	456
	Fire fighting - Underground water tank(CMD):	600
	Fire fighting - Overhead water tank(CMD):	120
	Excess treated water	199
Wet season:	**Source of water**	MCGM/STP Treated water/RWH
	Fresh water (CMD):	301
	Recycled water - Flushing (CMD):	153
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	454
	Fire fighting - Underground water tank(CMD):	600
	Fire fighting - Overhead water tank(CMD):	120
	Excess treated water	201
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:**	2m to 4 m
	Size and no of RWH tank(s) and Quantity:	110 cum
	Location of the RWH tank(s):	Ground level
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 11.00 lakhs
	Budgetary allocation (O & M cost) :	Rs. 1.5 lakhs/year
	Details of UGT tanks if any :	Domestic: 301 cum Flushing: 153 cum RWH: 110 cum
35.Storm water drainage	**Natural water drainage pattern:**	West to east
	Quantity of storm water:	0.2 cum/sec
	Size of SWD:	450 mm X 300 mm, 450 mm X 250 mm
Sewage and Waste water	**Sewage generation in KLD:**	394 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	433 KLD
	Location & area of the STP:	Below ground level
	Budgetary allocation (Capital cost):	Rs, 47.5 lakhs
	Budgetary allocation (O & M cost):	Rs. 7 lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Recyclable waste will be generated like empty cement bags & cans, scrap metal etc. Debris & construction waste shall be generated.
	Disposal of the construction waste debris:	Recyclable waste like empty cement bags & empty paint cans shall be handed over to local vendors. Broken tiles shall be used for china mosaic of terrace. Scrap metals shall be sold to recyclers .
Waste generation in the operation Phase:	**Dry waste:**	466 kg/day
	Wet waste:	1047 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	21 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to Local Recyclers.
	Wet waste:	Will be processed in the OWC, manure obtained shall be used for landscaping/Gardening, Excess manure shall be sold to nearby end users.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground Level
	Area for the storage of waste & other material:	52 sq.m
	Area for machinery:	20 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10 lakhs
	O & M cost:	Rs. 4 lakhs/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	628.65sq.mt
	No of trees to be cut :	Nil
	Number of trees to be planted :	31 nos.
	List of proposed native trees :	As listed below
	Timeline for completion of plantation :	at the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Anthocephallus cadamba	Kadamb	3	Evergreen Tree
2	Alstonia scholaris	Satwin	3	Evergreen Tree
3	Mimusops elengi	Bakul	4	Evergreen Tree
4	Terminalia cattapa	Almond tree	4	Shady& fruiting tree
5	Michelia champaca	Son chafa	4	flowering tree
6	Azadirachta indica	Neem	4	Medicinal tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Adani /TATA Power
	During Construction Phase: (Demand Load)	100kW
	DG set as Power back-up during construction phase	75KVA
	During Operation phase (Connected load):	3331kW
	During Operation phase (Demand load):	1587 kW
	Transformer:	1 x 1600 Kva, 1 x 1000 kVA
	DG set as Power back-up during operation phase:	3 X 320 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar PV panels, LED lights used for common area & external lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Savings	18%

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. 20 Lakhs
	O & M cost:	Rs. 1.5 Lakhs/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	4.00
2	Noise Environment	Noise Barricades and Green Belt Developments	3.00
3	Water Environment	Modular STP, Drainage with sedimentation tanks	3.00

4	Good Health Practices	Site Sanitation & Health Care	3.00
5	Environment Monitoring	Environment Monitoring	3.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Water Environment	RWH	35	1.5
2	Water Environment	STP	85	11
3	Solid waste management	OWC	25	5.5
4	Energy Savings	Solar	20	1.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site is accessible through the existing 13.40 m wide DP road
Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Nil
	Total Parking area:	2077.57 sq.m
	Area per car:	14.42 sq.m
	Area per car:	14.42 sq.m
	Number of 2-Wheelers as approved by competent authority:	Nil
	Number of 4-Wheelers as approved by competent authority:	144 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	minimum 6.00 m wide internal road

	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Sanjay Gandhi national Park (5.07km), Thane Creek Flamingo Sanctuary (6.16 km)
	Category as per schedule of EIA Notification sheet	8(a), B2
	Court cases pending if any	NA
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP Mr Rakesh singh was present during the meeting along with environmental consultant M/s. Enviro Analysts and Engineers Pvt. Ltd.

PP informed that, the project under consideration is *new SRA scheme project. PP further stated that, t*he total plot area of the project is 6890.00 Sq.mt. having total construction area 40430.44 Sq.mt. (FSI – 27277.28 sq.mt + NON FSI - 13153.16 sq.mt) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
Rehab Bldg 1	Gr + 22 floors	69.80
Sale bldg 2 (Wing A,B)	Gr + 22 floors	69.80
Sale Bldg 3	Gr + 22 floors	69.80
Parking Tower (2 nos)	-	-

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. Layout showing location of services including environmental infrastructure has been

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to ensure that, buffer for high tension line should be as per NoC dated 13/7/2018.
2) As shown during the presentation, PP to upload the Layout showing location of services including environmental infrastructure on the website immediately. PP to produce the same to SEIAA.
3) PP to ensure that, abutting road should be constructed as per the width of DP before OC.
4) Committee noted that, common STP provided, PP to instruct make necessary arrangement to maintain that STP by sale component.
5) Open spaces on north side to be specified as drive way. PP to upload the revised plan. Parking shown on eastside & beyond 6mt drive way of north side should be earmarked
6) The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC.
7) PP to submit CER prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertaken under CER to be carried out in consultation with Municipal Corporation or collector or Environment Department.
8) Parking shown on eastside & beyond 6mt drive way of north side should be earmarked.

FINAL RECOMMENDATION

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

Agenda of 116th Meeting (Day-2) of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 116 **Meeting Date** October 11, 2019

Subject: Environment Clearance for Extension of "Resort"

Is a Violation Case: No

1.Name of Project	Extension of "Resort"
2.Type of institution	Private
3.Name of Project Proponent	PAN INDIA PARYATAN INDIA PVT. LTD.
4.Name of Consultant	ADITYA ENVIRONMENTAL SERVICES PVT. LTD
5.Type of project	OTHERS - RESORT
6.New project/expansion in existing project/modernization/diversification in existing project	EXPANSION IN EXISTING PROJECT
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental Clearance and CRZ clearance had been obtained for existing project. Copy of the said noc's is enclosed as Annexure 1 & Annexure 2
8.Location of the project	on plot bearing C.T.S. No. 1912(B), 1917, 1919, 1920, 1922, 1923, 1925, 1926, 1929, 1930, 1932, 1934 to 1940, 1942 of village Gorai at Borivali (W), Mumbai
9.Taluka	Borivali
10.Village	Gorai
Correspondence Name:	Mr. R. P. Tyagi
Room Number:	0
Floor:	14
Building Name:	TIMES TOWER
Road/Street Name:	NIL
Locality:	KAMALA CITY
City:	Mumbai
11.Whether in Corporation / Municipal / other area	MCGM
12.IOD/IOA/Concession/Plan Approval Number	CHE/A-4596/BP(WS)/AR DTD. 26.02.2019
	IOD/IOA/Concession/Plan Approval Number: CHE/A-4596/BP(WS)/AR
	Approved Built-up Area: 45212.98
13.Note on the initiated work (If applicable)	YES WORK IS INITIATED AS PER EARLIER GRANTED EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	430703.03
16.Deductions	0
17.Net Plot area	430703.03
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 23541.44
	b) Non FSI area (sq. m.): 21671.54
	c) Total BUA area (sq. m.): 45212.98
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 23541.44
	Approved Non FSI area (sq. m.): 21671.54
	Date of Approval: 26-02-2019
19.Total ground coverage (m2)	5500
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	5
21.Estimated cost of the project	180000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	TOWER	two level basement (- 08.40 mtrs) + Ground floor + Mezzanine floor + 1st floor + Service floor + 2nd to 8th upper floors	39.60

23.Number of tenants and shops	299 ROOMS
24.Number of expected residents / users	No of Guest 612 no of staff 250
25.Tenant density per hectare	695
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 M AS PER APPROVED PLAN
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 M
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Rain Water Harvesting facility from developed layout+ STP recycled water
	Fresh water (CMD):	293.5
	Recycled water - Flushing (CMD):	100
	Recycled water - Gardening (CMD):	11.25
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	409.75
	Fire fighting - Underground water tank(CMD):	1X300000
	Fire fighting - Overhead water tank(CMD):	5X377500
	Excess treated water	216.49
Wet season:	**Source of water**	Rain Water Harvesting facility from developed layout+ STP recycled water
	Fresh water (CMD):	293.5
	Recycled water - Flushing (CMD):	100
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	5
	Total Water Requirement (CMD) :	398.5
	Fire fighting - Underground water tank(CMD):	1X300000
	Fire fighting - Overhead water tank(CMD):	5 X 377500
	Excess treated water	227.74
Details of Swimming pool (If any)	Area of swimming pool 482 sq m with depth of 1.2 m	

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	293.5	293.5	Not applicable	29.35	29.35	Not applicable	264.15	264.15
Fresh water requirement	Not applicable	5	5	Not applicable	1	1	Not applicable	4	4
Domestic	Not applicable	100	100	Not applicable	0	0	Not applicable	100	100

Gardening	Not applicable	10	10	Not applicable	10	10	Not applicable	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	13M BELOW GROUND LEVEL
	Size and no of RWH tank(s) and Quantity:	1 X 100000 CUM
	Location of the RWH tank(s):	ON GROUND
	Quantity of recharge pits:	0
	Size of recharge pits :	0
	Budgetary allocation (Capital cost) :	RS. 22 LACS
	Budgetary allocation (O & M cost) :	RS. 1 LAAC/YEAR
	Details of UGT tanks if any :	1 NO. OF 300000 CU.M
35.Storm water drainage	**Natural water drainage pattern:**	NATURAL DRAINAGE PATTERN WILL BE MAINTAINED
	Quantity of storm water:	0.412 CUM/SEC
	Size of SWD:	600 MM X 550 MM
Sewage and Waste water	**Sewage generation in KLD:**	350
	STP technology:	MBBR
	Capacity of STP (CMD):	1 X 370
	Location & area of the STP:	BASEMENT & 200 SQ.M
	Budgetary allocation (Capital cost):	RS. 70 LACS
	Budgetary allocation (O & M cost):	RS. 9 LACS

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	2000 CU.M
	Disposal of the construction waste debris:	THE CONSTRUCTION WASTE GENERATED WILL BE MANAGED AS PER CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT RULES, 2016
Waste generation in the operation Phase:	**Dry waste:**	93
	Wet waste:	139.5
	Hazardous waste:	0
	Biomedical waste (If applicable):	0
	STP Sludge (Dry sludge):	5.5 KG
	Others if any:	0

Mode of Disposal of waste:	**Dry waste:**	HYDRAULIC COMPACTOR MACHINE IS USED TO REDUCE THE SIZE OF WASTE THEN WILL BE SOLD TO SCRAP DEALERS.
	Wet waste:	WET GARBAGE WILL BE TREATED BY VERMICOMPOSTING. THE MANURE GENERATED WILL BE USED FOR GARDENING.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	DRY SLUDGE WILL BE USED AS MANURE FOR GARDENING PURPOSE.
	Others if any:	NA
Area requirement:	**Location(s):**	ON GROUND
	Area for the storage of waste & other material:	GARBAGE HOLDING AND TRASH COMPACTOR ON GROUND FLOOR
	Area for machinery:	GARBAGE HOLDING 3800 X 3150, TRASH COMPACTOR: 5335 X 5800
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	RS. 25 LACS
	O & M cost:	RS. 7 LACS

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	PH	-	6.5-8.0	6.5-8.0	-
2	COD	-	< or equal to 1500	< or equal to 100	mg/lit
3	BOD (3 DAYS @27 DEGREE C)	-	< or equal to 100	< or equal to 30	mg/lit
4	Suspended solid	-	< or equal to 200	< or equal to 10	mg/lit
5	oil & grease	-	< or equal to 50	< or equal to 1	mg/lit

Amount of effluent generation (CMD):	70 CMD
Capacity of the ETP:	75 CMD
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	ATTACHED AS ANNEXURE
Disposal of the ETP sludge	SETTLED SLUDGE FROM PLAIN SETTLER WILL BE REMOVED BY PUMPING TO THE SLUDGE HOLDING TANK WHERE IT IS PASSED TO FILTER PRESS TO MAKE CAKE OF THE SLUDGE.

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	WASTE OIL	5.1	LIT/ANNUM	Not applicable	375	375	WILL HANDED OVER TO AUTHORISED 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	3 NOS. OF DG SETS OF 3750 CAPACITY	HSD &	3	6	1.5	568 DEGREE C.

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	562.5	562.5
41.Source of Fuel		DG SETS		
42.Mode of Transportation of fuel to site		Not applicable		

43.Green Belt Development	**Total RG area :**	2250 SQ.M
	No of trees to be cut :	0
	Number of trees to be planted :	100
	List of proposed native trees :	ATTACHED AS ANNEXURE
	Timeline for completion of plantation :	1.5 YEARS AFTER COMPLETION OF THE PROJECT

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	ATTACHED AS ANNEXURE	ATTACHED AS ANNEXURE	ATTACHED AS ANNEXURE	ATTACHED AS ANNEXURE
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	ATTACHED AS ANNEXURE	ATTACHED AS ANNEXURE	ATTACHED AS ANNEXURE

47.Energy

Power requirement:	**Source of power supply :**	TATA POWER
	During Construction Phase: (Demand Load)	200 KVA
	DG set as Power back-up during construction phase	0
	During Operation phase (Connected load):	4101 KW
	During Operation phase (Demand load):	3454 KW
	Transformer:	0
	DG set as Power back-up during operation phase:	3 NOS X 1250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- USE OF ELECTRONIC BALLASTS IN FLUORESCENT LIGHTING BALLASTS
-USE OF ENERGY EFFICIENT FLUORESCENT LAMPS (TRULITE 36 W TUBELIGHT) THAT GIVES 3250 LUMENS OF LIGHT OUTPUT AS AGAINST CONVENTIONAL 2450 W OUTPUT LAMPS.
- AUTOMATIC DIMMERS AND DIMMING SYSTEMS
- MULTIPLE CIRCUITS IN COMMON AREAS LIKE GUEST FLOOR CORRIDORS, TOILETS, ETC. TO REDUCE LIGHTING BY 38% TO 60% BY MIDNIGHT.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	USE OF ELECTRONIC BALLASTS IN FLUORESCENT LIGHTING BALLASTS -USE OF ENERGY EFFICIENT FLUORESCENT LAMPS (TRULITE 36 W TUBELIGHT) THAT GIVES 3250 LUMENS OF LIGHT OUTPUT AS AGAINST CONVENTIONAL 2450 W OUTPUT LAMPS. - AUTOMATIC DIMMERS AND DIMMING SYSTEMS - MULTIPLE CIRCUITS IN COMMON AREAS LIKE GUEST FLOOR CORRIDORS, TOILETS, ETC. TO REDUCE LIGHTING BY 38% TO 60% BY MIDNIGHT.	20%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
STP	Not applicable	STP OF 370 CMD CAPACITY PROPOSED
ETP	Not applicable	ETP OF 75 CMD CAPACITY PROPOSED
VERMICOMPOSTING	Not applicable	VERMICOMPOSTING IN HOUSE INSTALLED

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	RS. 85 LACS
	O & M cost:	RS. 8.5 LACS/YEAR

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Barrier Construction	NA	CAPITAL COST: 1.00 , RECURRING COST:0.25
2	Labour facilities (Personal protective equipment, drinking water/ sanitation etc.)	NA	CAPITAL COST: 1.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	RAIN WATER HARVESTING	RWH TANK	22	1
2	STP + ETP	STP + ETP	70 +16	9
3	SOLDI WASTE MANAGEMENT	VERMICOMPOSTING	25	7
4	GREENBELT DEVELOPMENT	TREE PLANTATION	5.0	0.5
5	ENERGY SAVING	ENERGU SAVING CONSERVATION MEASURES	85	8.5

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	SITE IS ACCESSIBLE FROM BORIVALI ESSEL WORLD FERRY ROUTE

Parking details:	**Number and area of basement:**	2 NOS. & 6500 SQ.M
	Number and area of podia:	0
	Total Parking area:	6500
	Area per car:	2.5 X 5.5 m (13.75 Sq. M. excluding 6 m drive way)
	Area per car:	2.5 X 5.5 m (13.75 Sq. M. excluding 6 m drive way)
	Number of 2-Wheelers as approved by competent authority:	0
	Number of 4-Wheelers as approved by competent authority:	259
	Public Transport:	NIL
	Width of all Internal roads (m):	6M
	CRZ/ RRZ clearance obtain, if any:	YES, CRZ CLEARANCE OBTAINED
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	300 M - GORAI MANGROVE, 6KM - SGNP
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NO
	Other Relevant Informations	PREVIOUS EC LETTER NO. 21-143/2008-IA-III, DTD. 19TH APRIL 2010 PREVIOUS CRZ LETTER NO. MCZMA 2009/CR 16/MCZMA, DTD. 11.02.2010
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP was absent; hence the project is deferred.

DECISION OF SEAC

PP was absent; hence the project is deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

Agenda of 116th Meeting (Day-2) of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 116 **Meeting Date** October 11, 2019

Subject: Environment Clearance for proposed redevelopment of Existing Building 25, 26, 27 Trilochan CHS Ltd on plot bearing S N 6(pt), C S No 11 (pt) of village Sion Koliwada of MHADA layout Situated at Sardar Nagar No 2, Sion Koliwada Mumbai 400022

Is a Violation Case: No

1.Name of Project	proposed redevelopment of Existing Building 25, 26, 27 Trilochan CHS Ltd on plot bearing S N 6(pt), C S No 11 (pt) of village Sion Koliwada of MHADA layout Situated at Sardar Nagar No 2, Sion Koliwada Mumbai 400022
2.Type of institution	Private
3.Name of Project Proponent	Shikara Constrcutions Pvt Ltd.
4.Name of Consultant	Enviro Analysts and Engineers Pvt Ltd
5.Type of project	Residential and Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	MHADA Redevelopment
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	plot bearing S N 6(pt), C S No 11 (pt) of village Sion Koliwada of MHADA layout
9.Taluka	-
10.Village	Sion Koliwada
Correspondence Name:	Ms Sarala Shetty
Room Number:	204
Floor:	Second
Building Name:	Benzzola Complex , Opp Suman Nagar
Road/Street Name:	Sion Trombay Road
Locality:	Chembur
City:	Mumbai
11.Whether in Corporation / Municipal / other area	MCGM, MHADA
12.IOD/IOA/Concession/Plan Approval Number	yes
	IOD/IOA/Concession/Plan Approval Number: Application to MHADA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Application to MHADA
15.Total Plot Area (sq. m.)	3359.31 Sq. Mts
16.Deductions	NA
17.Net Plot area	3359.31 Sq. Mts
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 15836.02
	b) Non FSI area (sq. m.): 16007.98
	c) Total BUA area (sq. m.): 31844
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** -
	Approved Non FSI area (sq. m.): -
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	1881
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	56
21.Estimated cost of the project	1250000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	REHAB BLDG	STILTS +15th FLOOR & STILT +22RD FLOOR	45.25 & 68.45
2	SALE BLDG – WING A	GR. + 16TH FLOOR	49.45
3	SALE BLDG – WING B	GR. + 23RD FLOOR	69.75
4	SALE BLDG – WING C	GR.+ 17TH FLOOR	52.35

23.Number of tenants and shops	REHAB – 112 nos. SALE – 173 nos. Shops – 07 (G+1) DOUBLE HEIGHT
24.Number of expected residents / users	Residential: 1613 nos. Commercial: 75 nos.
25.Tenant density per hectare	581
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.30 mts. Wide Road and 9.15 mts. Wide Layout Road.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.5 m
29.Existing structure (s) if any	3 Buildings with G + 3 structure
30.Details of the demolition with disposal (If applicable)	Demolition waste will be disposed as per Construction & Demolition Waste Management 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):	137
	Recycled water - Flushing (CMD):	72
	Recycled water - Gardening (CMD):	8
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	217
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	60
	Excess treated water	59
Wet season:	**Source of water**	MCGM + RWH
	Fresh water (CMD):	137
	Recycled water - Flushing (CMD):	72
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	209
	Fire fighting - Underground water tank(CMD):	400
	Fire fighting - Overhead water tank(CMD):	60
	Excess treated water	67
Details of Swimming pool (If any)	Swimming pool at terrace level	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2 m
	Size and no of RWH tank(s) and Quantity:	68 cum and 2 nos.
	Location of the RWH tank(s):	Underground
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs 3 lakhs
	Budgetary allocation (O & M cost) :	Rs 0.2 lakhs
	Details of UGT tanks if any :	10 nos.
35.Storm water drainage	**Natural water drainage pattern:**	As per the natural slope
	Quantity of storm water:	0.14 cum/sec
	Size of SWD:	-
Sewage and Waste water	**Sewage generation in KLD:**	182
	STP technology:	MBBR
	Capacity of STP (CMD):	160
	Location & area of the STP:	Ground
	Budgetary allocation (Capital cost):	Rs 50 lakhs
	Budgetary allocation (O & M cost):	Rs 5 lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1. Empty bags: 12500 nos. 2.Steel: 2 MT , 3. Aggregates: 3.7 MT, 4. Broken tiles: 410 sq m, 5. Empty Paint Cans (20 litre/ can): 460 nos.
	Disposal of the construction waste debris:	1. Empty bags to be handed over to local recyclers, 2. Steel to e handed over to local recyclers, 3. Aggregates to be used for layering internal roads, 4. Broken tiles to be used for terraces, 5. empty paint cans to be sold.
Waste generation in the operation Phase:	**Dry waste:**	442 kg/day
	Wet waste:	295 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	9 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to recyclers.
	Wet waste:	Biodegradable waste will be processed in OWC and manure so obtained will be used for landscaping
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	29 sq mts
	Area for machinery:	10 sq mts
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 10 lakhs
	O & M cost:	Rs 2 lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1598.68 sq mts
	No of trees to be cut :	-
	Number of trees to be planted :	42 nos.
	List of proposed native trees :	As given below
	Timeline for completion of plantation :	Before completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Adina cordifolia	Kadam	10	Tropical and floweing
2	Delonix regia	Gulmohar	8	Tropical and floweing
3	Syzygium cumini	Jamun	2	Tropical and floweing
4	Azadirachta Indica	Neem	7	Medicinal
5	Terminalia Arjuna	Arjun tree	3	Tropical
6	Acacia nilotica	Babul tree	5	Tropical
7	Albizzia saman	Rain tree	2	Tropical
8	Plumeria alba	Champa	3	floweing
9	Cassia fistula	INDIAN LABARNUM	1	Tropical
10	Areca catechu	THE BETEL NUT PALM	1	tropical
11	total no	-	42	-
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	80 kW
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	6010.58 kW
	During Operation phase (Demand load):	1472.77 kW
	Transformer:	1 x 800 KVA, 1 x 1600 KVA
	DG set as Power back-up during operation phase:	1 x 380 KVA, 1 x 500 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

-

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total savings	15 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs 40 lakhs
	O & M cost:	Rs 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	Air Environment	Water Sprinkling, Green Belt Development, Covered storage area	1.5
2	Noise Environment	Noise Barricades and Green Belt Developments	1
3	Water Environment	Modular STP, Drainage with sedimentation tanks	2

4	Good Health Practices	Site Sanitation & Health Care	0.5
5	Environment Monitoring	Air, water, noise soil monitoring during construction phase	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	Rain Water Harvesting	RWH tanks	3	0.2
2	Solid waste management	OWC	10	2
3	Waste water management	STP	50	5
4	Energy conservation	Solar	40	3
5	Landscaping	Green Belt Development	20	4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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

Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	10
	Total Parking area:	8205.75 sq m
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	184 nos.
	Public Transport:	Guru Tegh Bahadur Railway Station
	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	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

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

PP informed that, the project under consideration is MHADA redevelopment project. *PP further stated that, t*he total plot area of the project is 3359.31 Sq.mt. having total construction area 30839.53 Sq.mt. (FSI - 15848.93 Sq.mt. + NON FSI- 14990.60 Sq.mt.) and the building configuration is as follow-

Building Name & number	Number of floors	Height (Mtrs)
REHAB BLDG	STILTS +15th FLOOR & STILT +22RD FLOOR	45.25 & 68.45
SALE BLDG – WING A	GR. + 16TH FLOOR	49.45
SALE BLDG – WING B	GR. + 23RD FLOOR	69.75
SALE BLDG – WING C	GR.+ 17TH FLOOR	52.35

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. Layout showing location of services including environmental infrastructure has

DECISION OF SEAC

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

Specific Conditions by SEAC:

1) PP to upload the Railway NOC.
2) PP to submit the sewerage network, water supply, storm water drain remark from local planning authority.
3) PP to explore measures to use maximum treated waste water to reduce disposal to 35%.
4) PP to upload the design & cross section of STPs indicating minimum 40% area open to sky for adequate ventilation.
5) Driveway shown on RG area, that area should be reduced from RG calculation Accordingly, PP to submit the revise RG calculations.
6) Committee noted that 6mt driveway on ramp is proposed for two way car movement. PP to redesign the same as per norms.

FINAL RECOMMENDATION

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

Agenda of 116th Meeting (Day-2) of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 116 **Meeting Date** October 11, 2019

Subject: Environment Clearance for Proposed project "Sai World Legend" at Plot no. 6(P), 7 & 8, CTS No. 1618, 1619, 1625 & 1626 A, Ulhasnagar -1. by M/s. Chariot Properties LLP

Is a Violation Case: No

1.Name of Project	Sai World Legend
2.Type of institution	Private
3.Name of Project Proponent	M/s. Chariot Properties LLP
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt Ltd
5.Type of project	Residential and commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Plot no. 6(P), 7 & 8, CTS No. 1618, 1619, 1625 & 1626 A, Ulhasnagar -1
9.Taluka	Ulhasnagar
10.Village	Ulhasnagar
Correspondence Name:	M/s. Chariot Properties LLP
Room Number:	1701
Floor:	17th
Building Name:	Satra plaza
Road/Street Name:	Palm beach road
Locality:	Sector 19 D Vashi
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	Ulhasnagar Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	CC Received
	IOD/IOA/Concession/Plan Approval Number: JVK K/U.M.P/NRV/B.P./40/16/135 dated 19-08-2019
	Approved Built-up Area: 30151.98
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	31535.65 sqm
16.Deductions	4869.87 sqm
17.Net Plot area	26665.78 sqm
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 29946.64
	b) Non FSI area (sq. m.): 43034.84
	c) Total BUA area (sq. m.): 72981.48
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 30151.98
	Approved Non FSI area (sq. m.): 43034.84
	Date of Approval: 19-08-2019
19.Total ground coverage (m2)	9069.20
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	34.01 %
21.Estimated cost of the project	1000000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building No. 1 & 2	2B + Gr + 2P + 3rd to 20th Floor	68.80
2	Commercial	G + 2 floors	11.50
3	Club house	G + 1 floor	9.0

23.Number of tenants and shops	Residential: 216 no's Shops: 17 no's Offices: 36 no's Club house: 2 location
24.Number of expected residents / users	Residential: 1242 nos, Shops: 75 nos, Office: 282 nos, Club house: 339 nos, Total: 1938 nos.
25.Tenant density per hectare	68 Tenants / hector
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.00 m wide D.P road & 36.00 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min. 9.00 m
29.Existing structure (s) if any	Nil
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	UMC/Recycle water from STP
	Fresh water (CMD):	122
	Recycled water - Flushing (CMD):	67
	Recycled water - Gardening (CMD):	11
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	200
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	15
	Excess treated water	90
Wet season:	**Source of water**	UMC/Recycle water from STP /RWH
	Fresh water (CMD):	122
	Recycled water - Flushing (CMD):	67
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	-
	Total Water Requirement (CMD) :	189
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	15
	Excess treated water	101
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2.4 to 2.7 below ground
	Size and no of RWH tank(s) and Quantity:	125 cum
	Location of the RWH tank(s):	Below ground level
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	7 Lakhs
	Budgetary allocation (O & M cost) :	1 Lakh/Annum
	Details of UGT tanks if any :	Domestic tank: 125 cum Fire tank: 200 cum RWH tank Capacity: 125 cum
35.Storm water drainage	**Natural water drainage pattern:**	S to N-W
	Quantity of storm water:	0.6 cum/sec (for building), 0.3 cum/sec (for club house)
	Size of SWD:	900 x 750 mm (for building), 600 x 650 mm (for club house)
Sewage and Waste water	**Sewage generation in KLD:**	177 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 nos. of STP with total capacity of 200 KLD
	Location & area of the STP:	Ground level
	Budgetary allocation (Capital cost):	25 lakhs
	Budgetary allocation (O & M cost):	2.5 lakhs/yr
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Recyclable waste will be generated like empty cement bags & cans, scrap metal etc. Debris & construction waste shall be generated.
	Disposal of the construction waste debris:	Recyclable waste like empty cement bags & empty paint cans shall be handed over to local vendors. Broken tiles shall be used for china mosaic of terrace. Scrap metals shall be sold to recyclers.
Waste generation in the operation Phase:	**Dry waste:**	370 kg/day
	Wet waste:	425 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	9 kg/day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Will be handed over to Local Recyclers.
	Wet waste:	Will be processed in the OWC. manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure & replacement of saw dust for OWC.
	Others if any:	NA
Area requirement:	**Location(s):**	Located at Ground Level
	Area for the storage of waste & other material:	100 sq.m
	Area for machinery:	15 sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 Lakh
	O & M cost:	1 Lakh/yr

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	3126.77 sq.m
	No of trees to be cut :	4 no's
	Number of trees to be planted :	337 no's
	List of proposed native trees :	as given below
	Timeline for completion of plantation :	at the end of construction phase

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachata indica	Neem Tree	19	medicinal tree
2	Millingtonia hortensis	Indian Cork tree	45	flowering tree
3	Cordia sebestena	Scarlet cordia	30	flowering tree
4	Polyalthia longifolia	Mast tree	45	evergreen tree
5	Caryota mitis	Fishtail palm	21	shady tree
6	Roystonia regia	Royal Palm	30	shady tree
7	Michelia champaca	Sonchapha	25	flowering tree
8	Nyctanthes arbortristis	Parijatak	40	flowering tree
9	Saraca asoca	Ashoka Tree	82	Sound barrier value
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 :**	MSEB
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	75 kW
	During Operation phase (Connected load):	6806 kW
	During Operation phase (Demand load):	3011 kW
	Transformer:	3 X 1250 kVA, 1 X 630 kVA
	DG set as Power back-up during operation phase:	1 X 400 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1) Hot water provision made using Solar Hot water :- 25 liters solar hot water per flat is considered . The total hot water capacity is 5100 liters(26.7%).The total nos. of Solar hot water panels are 41 nos.
2) system LED lights used for Staircase & Lobby:- Energy efficient LED lamps which gives app. 30% more light/lumen output for the same wattage consumed ,and therefore required less nos. of fixtures corresponding lower point wiring at lower cost.
3) LED Lights put on Solar PV Panels:- The 1.5% of the demand load ,which is 44 kw ,is taken on the solar PV panels.The total nos. of Solar PV panels are 147 nos. Out of 44 kws solar power , the 50% (22 kw) will be connected to Common area LED lights, with a net metering ,on grid , connection.
4) LED lights used for Ext. Road Lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy savings	25.2 %

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	46 Lakhs
	O & M cost:	4 Lakhs/yr

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

2	Noise Environment	Noise Baricades and Green Belt Developments	2
3	Water Environment	Modular STP , Drainage with sedimentation tanks	1.5
4	Good Health Practices	Site Sanitation & Health Care	1.5
5	Environment Monitoring	Environment Monitoring	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	Water Environment	RWH	7	1
2	Water Environment	STP	25	2.5
3	Solid waste management	OWC	10	1
4	Energy Savings	Solar	46	4
5	Land environment	Landscaping	78.10	15.63

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site is accessible through the existing 36 m wide road

Parking details:	**Number and area of basement:**	2 basement 7993.63 sq.m each
	Number and area of podia:	2 podium - 1st Podium 7475.24 sq.m & 2nd podium 6899.66 sq.m
	Total Parking area:	-
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooter: 948 no's, Cycles: 700 no's.
	Number of 4-Wheelers as approved by competent authority:	628 no's.
	Public Transport:	Nil
	Width of all Internal roads (m):	minimum 6.00 m wide internal road
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a)
	Court cases pending if any	NA
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Due to time constrain, project will be consider in next meeting

DECISION OF SEAC

Due to time constrain, project will be consider in next meeting

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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