92nd SEAC-3 day 01

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for Application for Environmental Clearance for Expansion in "45 Nirvana Hills (Vihar)" proposed SRA, Residential & Commercial project on plot bearing S. No. 44/1, Village -Erandwane, Tal. Haveli, Dist. Pune, Maharashtra by M/s Kumar Sinew Developers Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Expansion in "45 Nirvana Hills (Vihar)" proposed SRA, Residential & Commercial project on plot bearing S. No. 44/1, Village -Erandwane, Tal. Haveli, Dist. Pune, Maharashtra by M/s Kumar Sinew Developers Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	M/s Kumar Sinew Developers Pvt. Ltd. Miss. Krutikumar LalitKumar Jain
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd., Thane, Maharashtra
5.Type of project	SRA, Residential & Commercial project
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	We have received Environment Clearance File No SEAC -2010/CR.494/TC.2 on dated 28/02/2011, EC amendment in area file no SEAC-2010/CR.494/TC.2 dated 30/03/2015 and EC revalidated having file no SEIAA-EC-0000000446 dated 18.09.2018
8.Location of the project	S. No. 44/1, Erandwane
9.Taluka	Haveli
10.Village	Erandwane
Correspondence Name:	M/s Kumar Sinew Developers Pvt. Ltd.
Room Number:	362/3A
Floor:	10th floor
Building Name:	Kumar Business Centre
Road/Street Name:	Bund Garden road
Locality:	Pune
City:	Pune -411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	We have received approval from SRA, letter dated 02.02.2019 vide no. SRA/308/2019
	IOD/IOA/Concession/Plan Approval Number: SRA/308/2019 dated 02.02.2019
	Approved Built-up Area: 841470
13.Note on the initiated work (If applicable)	Construction of A1, A2, A3, A4, A5, A7, A8, A9, A11, A12 buildings are completed & construction of A10, C1 & C2 are in process as per EC.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	We have received approval from SRA, letter dated 02.02.2019 vide no. SRA/308/2019
15.Total Plot Area (sq. m.)	3,03,708 m2
16.Deductions	1,38,713 m2
17.Net Plot area	1,64,995 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 8,41,470 m2
	b) Non FSI area (sq. m.): 5,62,842 m2
	c) Total BUA area (sq. m.): 1404312
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 8,41,470 m2
	Approved Non FSI area (sq. m.): 5,62,842 m2
	Date of Approval: 02-02-2019
19.Total ground coverage (m2)	70,241 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	42.6%
21.Estimated cost of the project	22000000000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A Type Building (Existing)	-	-
2	Building A1 & A2	G+6 floors	20.30
3	Building A3 & A4	G+6 floors	20.30
4	Building A5, A7 & A8	G+7 floors	23.20
5	Building A9	G+7 floors	25.52
6	Rehabilitation buildings (A10 to A40) (RGP + Kalewadi + Rautwadi + Hanumangar)	-	-
7	Building A10	P+7 floors	23.20
8	Building A11 & A12	P+12 floors	37.88
9	Building A13	G+4 floors	14.90
10	Building A14	P+12 floors	37.70
11	Building A15 - A29	P+13 floors	40.60
12	Building A30 - A40	P+12 floors	37.70
13	Free sale buildings	-	-
14	Building C1, C2	B+8P+LG+UG+21 floor	99.95
15	Building C3, C4	B+LG+UP+3P+27 floor	99.95
16	MALL Building B1	2B+G+2 floor	21
17	Residential above Mall Building	-	-
18	B1 (A)	2B+G+2+2P+35 floor	136.68
19	B1 (B)	2B+G+2+2P+35 floor	136.68
20	B1 (C)	2B+G+2+2P+35 floor	136.68
21	Commercial above Mall building	-	-
22	B1 (D)	2B+G+2+3P+27 floor	133.09
23	B1 (E)	2B+G+2+3P+27 floor	133.09
24	B1 (F)	2B+G+2+3P+27 floor	133.09
25	B1 (G)	2B+G+2+3P+27 floor	133.09
26	Free sale residential building	-	-
27	F1, F2	G+2P+39 floor	124.4
28	F3, F4	G+2P+38 floor	121.5
29	Commercial building	-	-
30	E	B+G+2P+5 floor	28.7
31	B3	2P+10 floor	39.6
32	B2	B+G+4P+14 floor	68.4
33	Residential building-D	8P+41 floor	148.9
34	Club House 1	G+1	8.1
35	Club House 6	G+1	9
36	Club House 8	G+1	8.1
37	Club House 9	G+1	9
38	Club House10	G+1	8.1
39	Total	-	Tenement-9,338 Shop & offices-3,648

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23.Number of tenants and shops	No. of Tenements-9,338 nos. No. of Shops & offices-3,648 nos.
24.Number of expected residents / users	Residential population – 46,605 nos. Commercial population – 28,457 nos. Total population – 75,062 nos.
25.Tenant density per hectare	566 tenants/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	15 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Internal road - 6 m & 15 m Turning radius - 9 m & 12 m
29.Existing structure (s) if any	School, Hospital & 4,500 nos. of slum housing are existing on site.
30.Details of the demolition with disposal (If applicable)	4,500 nos. of slum housing.13,500 m3 demolition quantity will be generated.

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**	Pune Municipal corporation
	Fresh water (CMD):	4,905
	Recycled water - Flushing (CMD):	2,667
	Recycled water - Gardening (CMD):	129
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	7572
	Fire fighting - Underground water tank(CMD):	2,051 m3
	Fire fighting - Overhead water tank(CMD):	628 m3
	Excess treated water	3,676

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Wet season:	**Source of water**	Pune Municipal corporation
	Fresh water (CMD):	4,905
	Recycled water - Flushing (CMD):	2,667
	Recycled water - Gardening (CMD):	65
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	7572
	Fire fighting - Underground water tank(CMD):	2,051 m3
	Fire fighting - Overhead water tank(CMD):	628 m3
	Excess treated water	3,740
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15-20 m BGL
	Size and no of RWH tank(s) and Quantity:	2 nos. of RWH tanks with quantities of 250 m3 and 570 m3
	Location of the RWH tank(s):	As per master plan
	Quantity of recharge pits:	37 Nos.
	Size of recharge pits :	1.5 m x 1.5 m x 1.5 m
	Budgetary allocation (Capital cost) :	Rs. 58 Lakh
	Budgetary allocation (O & M cost) :	Rs. 2 Lakh/year
	Details of UGT tanks if any :	Drinking UG Tank Capacity: 1,157 m3 Domestic UG tank Capacity: 3,673 m3 Fire Fighting tank: 2,051 m3

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35.Storm water drainage	**Natural water drainage pattern:**	As per contour plan
	Quantity of storm water:	3 m3/sec
	Size of SWD:	450 mm x 300 mm (At initial level)
Sewage and Waste water	**Sewage generation in KLD:**	6,813 m3/day
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	14 no. having total capacity 7,155 m3/day (1 no. x 315 m3/day, 1 no. x 335 m3/day, 1 no. x 615 m3/day, 1 no. x 805 m3/day, 1 no. x 740 m3/day, 1 no. x 715 m3/day, 1 no. x 780 m3/day, 1 no. x 675 m3/day, 1 no. x 750 m3/day, 1 no. x 30 m3/day, 1 no. x 115 m3/day, 1 no. x 315 m3/day, 1 no. x 490 m3/day, 1 no. x 475 m3/day)
	Location & area of the STP:	Location - On ground Area of STP 3,578 m2
	Budgetary allocation (Capital cost):	Rs.2,108 Lakh
	Budgetary allocation (O & M cost):	Rs.316 Lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	• Waste generation is 3,18,392 m3 • Quantity of the top soil to be preserved: 15,919 m3. • Quantity of the top soil to be preserved: Top soil preservation / conservation: Top soil will be preserved and later reused in landscape area.
	Disposal of the construction waste debris:	Debris generated will be sent to the authorized debris disposal site as per “Construction and Demolition and De-silting Waste (Management and Disposal) Rules 2006.
Waste generation in the operation Phase:	**Dry waste:**	12,661 kg/day
	Wet waste:	15,446 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	1,064 kg/day
	Others if any:	E waste: 37,531 kg/year
Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be handover to authorized recyclers for further handling & disposal purpose.
	Wet waste:	Wet waste will be treated by using Organic waste converter machine.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dry sludge can be used as manure for plantation & gardening purposes inside the premise.
	Others if any:	E waste- handed over to authorised agencies for further handling & disposal purpose.
Area requirement:	**Location(s):**	Locations are as per master layout
	Area for the storage of waste & other material:	208 m2
	Area for machinery:	831 m2

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Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.339 Lakh
	O & M cost:	Rs.83 Lakh/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	400 kVA	At 100 % Load 107.90 Ltrs/hrs.At 75 % Load 82.50 Lts/hrs	1	5	0.152 m	419 ºC
2	500 kVA	At 100 % Load 107.90 Ltrs/hrs. At 75 % Load 79.83 Lts/hrs	1	5	0.250 m	464 ºC
3	750 kVA	At 100 % Load 165 Ltrs/hrs. At 75 % Load 130.42 Lts/hrs	1	5	0.20 m	520 ºC
4	1010 kVA	At 100 % Load 203.8 Ltrs/hrs.At 75 % Load 153.3 Lts/hrs	1	5	-	500ºC

40.Details of Fuel to be used

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

41.Source of Fuel	Authorised Vender
42.Mode of Transportation of fuel to site	By road

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43.Green Belt Development	**Total RG area :**	21,450 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	1,854 nos. will be planted & 200 nos. existing trees
	List of proposed native trees :	Provided
	Timeline for completion of plantation :	6 to 9 months after completion of civil works

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ficus bengalhensis	Vad	32	Provides fulfillment of wishes and other material gains
2	Ficus religiosa	Pimpal	24	Used for worshiping
3	Ficus racemosa	Umbar	46	Fruit bearing
4	Syzygium cumini	Jambhul	40	Fruit bearing
5	Madhuca indica	Moha	36	Medicinal values
6	Prosopis spicigera	Shami	33	Used for worshiping
7	Hirda	Hirda	37	Used for medicine, timber, fuel
8	Terminalia belerica	Beheda	37	Medicinal values
9	Aegle marmelos	Bel	20	Medicinal values
10	Terminalia arjuna	Arjun	31	Medicinal values
11	Sapindus trifoliatus	Ritha	23	Flowering tree
12	Karanj	Karanj	31	Shade giving tree
13	Mimusops elengi	Bakul	37	Flowers white, fragrant, axillary, solitary or fascicled, Fruits ovoid, or ellipsoid berries
14	Butea Monosperma	Palas	36	Used for worshiping
15	Azadirachta indica	Neem Tree	34	Fast growing Tree, useful for methane gas production
16	Pterospermum canescens	Muchkand	38	Medicinal values
17	Bauhinia racemosa	Apta	40	Butterfly host tree
18	Cordia	Bhokar	50	Flowering tree
19	Eleocarpus sphaericus	Rudraksh	18	Fruit bearing tree
20	Tamarindus indica	Chinch	14	Fruit bearing tree
21	Acacia chundra	Khair	32	Medicinal values
22	Anthosaphalus Kadamba	Kadamb	40	Shady, large tree, ball shaped flowers.
23	Bombax ceibakate	Kate sawar	10	Cotton tree flower
24	Cassia fistula	Bahava	42	Drough resistance, Butterfly host tree
25	Ficus retusa	Nadruk	34	Fruit bearing tree
26	Ailanthus excelsa	Maharukh	38	Large tree, good for roadside plantation
27	Anthosaphalus kadamba	Kadamb	41	Shady, large tree, ball shaped flowers.

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28	Caryota urens	Fish Tail Palm	20	Tall evergreen tree
29	Erythrina indica	Pangara	36	Medium sized deciduous tree. Bright scarlet flowers.
30	Murrayya paniulate	Kunti	48	Small tree, Fragrant white flowers, Butterfly host plant
31	Michela champaca	Son Chafa	39	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
32	Saraca asoka	Sita Asoka	41	Shady tree with red-yellow flowers.
33	Lagestromia flosre genia	Tamhan	45	State flower tree of Maharashtra
34	Bauhinia blakeana	Hong kong Orchid Tree	56	Medium sized tree with pink flower, medicinal value
35	Bucida molineti	Spiny Black Olive	26	Medium sized tree
36	Brassia actinophylla	Umbrella tree	28	Shady tree,The leaves, stem and roots are used in herbal preparations
37	Cassia fistula	Golden shower tree	27	Almost every part of this tree is useful and its bark, fruits and flowers have been used for medicinal purpose.
38	Erythrina glauca	Coral Tree	38	Medium sized tree, medicinal value
39	Michelia champaca	Champa	48	Rich in medicinal properties is used in several ayurvedic preparations
40	Plumeria obtusa	Champa White	50	Evergreen tree is mainly grown for its strongly fragrant white flowers
41	Samanea saman	Rain Tree	49	Large & shady tree
42	Tabebuia argentea	Golden Bell	22	Medium sized, with yellow flowers
43	Caryota mitis	Clustering Fishtail Palm	12	Large sized Evergreen, Ornamental tree
44	Chrysalidocarpus lutescens	Golden cane palm	18	Medium- large sized tree
45	Rhapis excela	Bamboo Palm	63	Medium- large sized tree
46	Roystonea regia	Royal palm	56	Medium- large sized, Ornamental tree
47	Washingtonia robusta	Mexican Fan Palm	36	Large sized evergreen tree
48	Wodyetia bifurcata	Foxtail Palm	34	Large sized Evergreen tree & Easy for maintenance
49	Carcia papaya	Papaya	42	Medium sized, Fruit bearing tree
50	Piper nigrum	Black paper	38	Medium sized tree, medicinal value
51	Ficus lyrata	Fiddle-leaf fig	34	Air-purifying Tree
52	Areca catechu	Areca palm	21	Absorb harmful pollutants from indoor air and provide fresh air
53	Azardiracta Indica	Neem	33	Large sized evergreen tree
54	Total	-	1,854	-
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	116 kVA
	DG set as Power back-up during construction phase	125 kVA
	During Operation phase (Connected load):	68,940 kW
	During Operation phase (Demand load):	34,524 kW
	Transformer:	38 nos. x 630 kVA, 3 nos. x 315 kVA, 22 nos. x 1000 kVA
	DG set as Power back-up during operation phase:	2 nos. x 400 kVA, 20 nos. x 1010 kVA, 2 nos. x 500 kVA, 1 no. x 75 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

The following Energy Conservation Methods are proposed in the project:
? Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area: 1897551 kWH
? Energy saving using Low Loss Transformer Against Conventional Transformer: 220752 kWH
? Energy Saving using Solar Water Heater Against Electrical Water Heater: 7703850 kWH
? Energy Saved by Solar PV: 171000 kWH
? Energy Saved by Automatic Timer logic controller for lighting Control Against No Timer Control: 1540667 kWH
? Energy Saved by Using VFD for Lift against conventional drive: 1016890 kWH
? Total Energy Saving in Project by Energy saving measures: 14089710 kWH

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	1. Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area	34%
2	2. Energy saving using Low Loss Transformer Against Conventional Transformer	5%
3	3. Energy Saving using Solar Water Heater Against Electrical Water Heater	75%
4	4. Energy Saved by Solar PV	5%
5	5. Energy Saved by Automatic Timer logic controller for lighting Control Against No Timer Control	43%
6	6. Energy Saved by Using VFD for Lift against conventional drive	20%

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7	7. Total Energy Saving in Project by Energy saving measures	12%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.2,635 Lakh
	O & M cost:	Rs.29 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water spray for dust suppression	10
2	-	Tyre cleaning and vehicle maintenance	3
3	-	Safety nets	5
4	Water Environment	Site Sanitation, toilets, safe drinking water, septic tank	3
5	-	Environmental Monitoring	2
6	-	Storm water management	4
7	-	Disinfection	5
8	Socio Economic Environment	Health Checkup & first aid	4
9	Health & Safety	Safety Personal Protective Equipment's	5
10	Noise Environment	Traffic Management	3
11	-	Site fencing and Noise barriers	12
12	Total	-	56

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment plant	14 nos. of STP having total capacity 7,155 m3/day	2,108	316
2	Rain water Harvesting	37 nos. of recharge pits Size of recharge pits 1.5 m x 1.5 m x 1.5 m	58	2
3	Solid Waste Management	Cost for Treatment of biodegradable garbage in OWC (14 nos.)	339	83
4	Energy conservation	Solar street lighting	2,635	29

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5	Environment monitoring	Monitoring and analysis of Air, Noise, water, soil, etc.	MoEF approved Laboratory	10
6	Landscape Development including tree plantation along with the plot boundary	Tree plantation & landscaping	145	11
7	Laying of storm water & sewer drain upto final disposal point	-	2	1
8	Total	-	5,287	452

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 no. of the junction
Parking details:	**Number and area of basement:**	5 nos. of parking & total parking area of basement 88,076 m2
	Number and area of podia:	2 nos. of parking & total parking area of podium 65,609 m2
	Total Parking area:	4,92,251 m2
	Area per car:	Basements -35 m2, Podium floors - 30 m2, Stilt - 30 m2
	Area per car:	Basements -35 m2, Podium floors - 30 m2, Stilt - 30 m2
	Number of 2-Wheelers as approved by competent authority:	27,747 nos.
	Number of 4-Wheelers as approved by competent authority:	9,480 nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6 m & 15 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable

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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8 (b) B1 Category
	Court cases pending if any	Not Applicable
	Other Relevant Informations	We have received Environment Clearance vide file No SEAC-2010/CR.494/TC.2 on dated 28/02/2011 , EC amendment in area vide file no SEAC-2010/CR.494/TC.2 dated 30/03/2015 and Revalidation of Environment Clearance dated 18.09.2018
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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PP submitted their application for prior Environmental clearance for total plot area of 3,03,708 m2, FSI area of 8,41,470m2, Non FSI area of 5,62,842 m2 and total BUA of 1404312 m2.

The proposal is considered under category 8(B)B1. The PP was issued Terms of Reference for preparation of EIA report in 85th meeting of SEAC-3.

DECISION OF SEAC

*SEAC decided to **defer** the proposal as the EIA report was not received by the Committee. The proposal will be considered after receipt of the same.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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92nd SEAC-3 day 01

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for "Center for Perfect Health" by Maharishi Vedoddharak Foundation and Maharishi Vedic Health Pvt Ltd at Wahangaon, Pune, Maharashtra

Is a Violation Case: No

1.Name of Project	"Center for Perfect Health" by Maharishi Vedoddharak Foundation and Maharishi Vedic Health Pvt Ltd
2.Type of institution	Private
3.Name of Project Proponent	Maharishi Vedoddharak Foundation and Maharishi Vedic Health Pvt Ltd - Mr. Giridhari Shriniwas Kale
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Integrated Project of Tourism, Health, Education & Ayurveda Industry.
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	Gat No.57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 70, 71, 72, 73,79, 81, 82, 83, 100, 2, 77, 78, 99, 80, 105, 55, 56, 1, 318, 326, 328, 345, 347, 363, 369, 364, 367, 344, 88, 84, 317, 320, 348, 368, 369, 68,69,75, Village Wahangaon, Tal: Maval, Dist: Pune.
9.Taluka	Maval
10.Village	Wahangaon
Correspondence Name:	Mr. Giridhari Shriniwas Kale
Room Number:	C-10, Abhimanshree Society, Pashan Road, Baner , Pune-411007
Floor:	-
Building Name:	-
Road/Street Name:	Pashan Road
Locality:	Baner
City:	Pune-411007
11.Whether in Corporation / Municipal / other area	Integrated Industrial Area (Wahangaon Grampanchayat)
12.IOD/IOA/Concession/Plan Approval Number	Under process
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 162577
13.Note on the initiated work (If applicable)	Work not initiated
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Under process
15.Total Plot Area (sq. m.)	8,43,415 m2
16.Deductions	84,342 m2
17.Net Plot area	7,59,074 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1,62,577 m2
	b) Non FSI area (sq. m.): 4,066 m2
	c) Total BUA area (sq. m.): 167048
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** -
	Approved Non FSI area (sq. m.): -
	Date of Approval: 28-12-2018
19.Total ground coverage (m2)	88,027 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12 % of total net plot area
21.Estimated cost of the project	4500000000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Security Cabin (6 Nos.)	Ground	4
2	Factory building (3 wings)	Ground	10
3	Private University	-	-
4	a. Admin	-	-
5	b. College	-	-
6	c. Nursing College	-	-
7	d. Hostel (Boys & Girls)	-	-
8	e. Mess	-	-
9	Ayurveda College & Hospital (100 Beds)	Ground + 4	25
10	a. Doctor's & Staff apartment	Ground + 1	10
11	b. Recovery Villas Type 2 (OPD)	Ground + 1	10
12	50 Rooms Hotel (2 Wings)	Ground + 2	15
13	Veda Research Centre	-	-
14	a. Pandit Mess	Ground	8
15	b. Pandit Residence (12 Nos.)	Ground + 1	10
16	Apartment (9 Nos.)	Ground + 2	15
17	Japa Hall (4 Nos.)	Ground	5
18	Pandit Yagya Shala (19 Nos.)	Ground	5
19	VIP Residence (2 Nos.)	Ground + 1	10
20	Meditation Hall	Ground	8
21	Toilets for Veda Research Centre	Ground	4
22	Pandit Laundry	Ground	4
23	Administration Building	Ground + 8	40
24	East Gate	Ground	10
25	Shopping Market	Ground	15
26	Traditional Village Market	Ground	6
27	Big Hall	Ground	15
28	Restaurant for market	Ground	15
29	Invincibility Tower	Ground + 11	60
30	Vedic Theme Park (64 nos.)	Ground	7
31	Mountains (Only decorative part)	Ground	25
32	Wedding Hotel	Ground + 2	15
33	Wedding Space	Ground	10
34	Banquet Hall	Basement + Ground	25
35	Organic Restaurant	Ground	6
36	Hotel (146 rooms)	Basement + Ground + 3	32
37	40 Rooms Hotel	Ground	8
38	30 Rooms Hotel	Ground	8
39	Treatment Rooms Cluster (5 Nos.)	Ground	8
40	Fitness club	Ground	6

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41	Kala shala (7 Nos.)	Ground	5
42	Public toilets (3 Nos.)	Ground	5
43	Villas (177 Nos.)	-	-
44	a. Villa Type 1 (26 Nos.)	Ground + 1	15
45	b. Villa Type 2 (36 Nos.)	Ground	8
46	c. Villa Type 3 (25 Nos.)	Ground	8
47	d. Villa Type 4 (20 Nos.)	Ground	8
48	e. Villa Type 5 (7 Nos.)	Ground + 1	15
49	f. Villa Type 6 (11 Nos.)	Ground + 1	15
50	g. Villa Type 7 (40 Nos.)	Ground + 1	15
51	h. Villa Type 8 (12 Nos.)	Ground	8

23.Number of tenants and shops	No. of shops – 1 Restaurant (Multi Casinos)
24.Number of expected residents / users	Total Population -3,784 nos. (Permanent population-998 nos. + floating population – 2786 nos.)
25.Tenant density per hectare	49 tenants/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 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	Turning radius - 9 m
29.Existing structure (s) if any	Farm house bungalow, Labour camp & RWH tank
30.Details of the demolition with disposal (If applicable)	Only Labour camp which is a temporary structure, will be demolished. Construction debris will be reused in Project.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	1. Ayurvedic medicines	Not applicable	1200	1200
2	2. Aroma oils and Treatment Oils	Not applicable	100	100
3	3. Food supplements	Not applicable	1000	1000
4	4. Vedic Honey	Not applicable	250	250
5	5. Organic Food Processing	Not applicable	1000	1000
6	6. Organic Cosmetics	Not applicable	250	250

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7	7. Organic Cloth Stitching	Not applicable	-	-
8	8. Cow dairy products	Not applicable	75	75

32.Total Water Requirement

Dry season:	**Source of water**	Thokarwadi Dam
	Fresh water (CMD):	306 m3/day
	Recycled water - Flushing (CMD):	118 m3/day
	Recycled water - Gardening (CMD):	206 m3/day
	Swimming pool make up (Cum):	5 m3 (Make up water)
	Total Water Requirement (CMD) :	429 m3/day
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	5 m3 (On top of each RCC construction bldg.)
	Excess treated water	Will be used for landscape
Wet season:	**Source of water**	Thokarwadi Dam
	Fresh water (CMD):	306 m3/day
	Recycled water - Flushing (CMD):	118 m3/day
	Recycled water - Gardening (CMD):	103 m3/day
	Swimming pool make up (Cum):	5 m3 (Make up water)
	Total Water Requirement (CMD) :	429 m3/day
	Fire fighting - Underground water tank(CMD):	200 m3
	Fire fighting - Overhead water tank(CMD):	5 m3 (On top of each RCC construction bldg.)
	Excess treated water	Will be used for landscape
Details of Swimming pool (If any)	1 No. for fitness club Dimensions of swimming pool – 25 m x 15 m (1.5 m depth) Make up water requirement – 5 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**
Industrial Process	Not applicable	200	200	Not applicable	24	24	Not applicable	176	176

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6 m BGL
	Size and no of RWH tank(s) and Quantity:	1 no. x 200 m3
	Location of the RWH tank(s):	As per layout
	Quantity of recharge pits:	33 nos. (as per 1 pit for 5,000 m2 of built up area)
	Size of recharge pits :	2.5 m x 2.5 m x 3 m depth
	Budgetary allocation (Capital cost) :	Rs. 25 Lakh
	Budgetary allocation (O & M cost) :	Rs. 2 Lakh/year
	Details of UGT tanks if any :	2 x 200 m3 for Fire & drinking water
35.Storm water drainage	**Natural water drainage pattern:**	Along with contour
	Quantity of storm water:	1.5 m3/sec
	Size of SWD:	300 mm x 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	Total 185 m3/day (Excluding Hospital)
	STP technology:	MBBR
	Capacity of STP (CMD):	Total 200 m3/day
	Location & area of the STP:	As per contour
	Budgetary allocation (Capital cost):	Rs. 50 Lakh
	Budgetary allocation (O & M cost):	Rs. 5 Lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	64,852 m3 Mostly Biomass, Agro waste and Bio-degradable
	Disposal of the construction waste debris:	Will be used for backfilling & landscaping purpose.
Waste generation in the operation Phase:	**Dry waste:**	350 kg/day
	Wet waste:	525 kg/day
	Hazardous waste:	9 kg/day (ETP sludge)
	Biomedical waste (If applicable):	35 kg/day
	STP Sludge (Dry sludge):	9 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized vendor for further processing
	Wet waste:	Treated in organic waste composting machine
	Hazardous waste:	Handed over to CPCB authorized vendor for further processing
	Biomedical waste (If applicable):	Handed over to CPCB authorized vendor for further processing
	STP Sludge (Dry sludge):	Used for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	2 locations, 2 nos. of OWC machines with total capacity 600 kg/day
	Area for the storage of waste & other material:	Total area 120 m2 (50 m2 & 70 m2)
	Area for machinery:	25 m2 for each machine
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 15 Lakh
	O & M cost:	Rs. 3 Lakh/year

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	4.85	6.5-7.5	6.5-7.5
2	COD	mg/l	12000	<250	<250
3	BOD, 3 days @ 270c	mg/l	3000	<30	<30
4	Suspended solids	mg/l	1500	<100	<100
5	Oil & grease	mg/l	150	Nil	Nil

Amount of effluent generation (CMD):	Total 176 m3/day (From Ayurvedic Hospital, Hotel & factory building)
Capacity of the ETP:	Total 200 m3/day
Amount of treated effluent recycled :	172 m3/day
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Chemical coagulation with sedimentation and disinfection with UV (MBBR with Zero liquid discharge)
Disposal of the ETP sludge	Treated into sludge drying bed & disposal to common hazardous treatment unit

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge	2.2	Kg/day	Not applicable	9	9	Handed cover to CPCB authorized vendor

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Drugs/ Neurtaceiticalls (Ayurvedic aroma oils, foods supplements, organic foods)	Furnace oil/LPG – 200 MT/month	1	30 m	Top 1500 mm	30o c

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2	Cow and Dairy products/ Honey, cosmetics	Wood- 600 MT/month	2	30 m	Top 1500 mm	30o c

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Furnace oil /LPG	Not applicable	200 MT/month	200 MT/month
2	Wood	Not applicable	600 MT/month	600 MT/month
41.Source of Fuel		Local Market		
42.Mode of Transportation of fuel to site		Road Transport		

43.Green Belt Development	**Total RG area :**	4,96,914 m2
	No of trees to be cut :	120 nos of trees will be cut ,150 Nos. of trees will be transplant & 3,969 nos. of trees will be retained
	Number of trees to be planted :	The project proposes to plant large plantation of Trees with medicinal value. Partial list enclosed.
	List of proposed native trees :	Large plantation is being made for manufacture of ayurvedic medicines & oils
	Timeline for completion of plantation :	Large no. of trees are present at site which are more than required as per norms. Tree land scaping and additional plantation if any will be completed within 12 months after project completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Existing Trees	-	-	-
2	psidium guajava	Jambhul	34	Evergreen small, fruit bearing tree
3	Artocarpus heterophyllus	Fanas	47	Shady, fruit bearing tree
4	Mangifera indica	Mango	3396	Large evergreen fruit bearing tree.
5	Eucalyptus	Nilgiri	13	-
6	-	Other	749	-
7	Proposed Tree	-	-	-
8	Aegle marmelos	Bel	100	Medicinal properties
9	Terminalia Chebula	Hirda	100	Medicinal properties
10	Terminalia bellarica	Behada	100	Medicinal properties
11	Syzygium cumini	Jambul	100	Evergreen palm. Medicinal and Ornamental plant
12	Terminalia arjuna	Arjun	100	Medium sized deciduous tree. Bright scarlet flowers.
13	Cassia fistula	Bahava	100	Shady tree bearing white fragrant flowers.
14	Cinnamomum camphora	Karpur	100	Medium sized evergreen and shady tree having fragrant flowers
15	Litsea chinensis	Meida	100	Tall deciduous tree having medicinal properties
16	Cinnamomum tamala	Tejpatta	100	Large evergreen fruit bearing tree.
17	Oroxylum indicum	Tetu	100	Small rounded deciduous tree with fragrant flowers
18	Pongamia pinnata	Karanj	100	Evergreen flowering tree.

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19	Michelia champaca	Champa	100	Evergreen ornamental tree
20	Bauhinia variegata	Kanchan	100	Deciduous flowering tree
21	Azadirachta indica	Neem	100	Medicinal properties
22	Saraca asoka	Ashoka	100	Medicinal properties
23	Putranjiva roxburgii	Putranjiva	100	Medicinal properties
24	Madhuca indica	Mahua	100	Medicinal properties
25	Emblica officinalis	Amla	100	Medicinal properties
26	Gmelina arborea	Shivan	100	Medicinal properties
27	Santalum alba	Chandan	100	Medicinal properties
28	Mimusops elangi	Bakul	100	Medicinal properties
29	Schleichera oleosa	Kusum	100	Medicinal properties
30	Elaeocarpus ganitrus	Rudraksh	100	Medicinal properties
31	Cinnamomum zeylanicum	Dalchini	100	Medicinal properties
32	Myristica fragrans	Jaiphal	100	Medicinal properties
33	Syzygium aromaticum	Laung	100	Medicinal properties
34	Ficus carica	Anjir	100	Medicinal properties
35	Grewia titliaefilia	Dhanvan	100	Medicinal properties
36	Tecoma undulata	Rohita	100	Medicinal properties
37	Albizia lebbeck	Shirish	100	Medicinal properties
38	Strychnos nuxvoica	Kavi/Kuchala	100	Medicinal properties
39	Ficus glamorata	Umber	100	Medicinal properties
40	Bambusa arundinacea	Bamboo	100	Medicinal properties
41	Ficus religiosa	Peepal	50	Medicinal properties
42	Ficus bengalensis	Vad	50	Medicinal properties
43	Butea monosperma	Palas	100	Medicinal properties
44	Ficus virens	Payar	100	Medicinal properties
45	Pinus roxburghii	Cheer	100	Medicinal properties
46	Shorea robusta	Sal	100	Medicinal properties
47	Sapindus mukorrossi	Ritha	100	Medicinal properties
48	Artocarpus heterochyllus	Phanas	100	Medicinal properties
49	Prosopis cineraria	Shami	50	Medicinal properties
50	Neolamarkia cadamba	Kadamba	50	Medicinal properties
51	Mangifera indica	Mango	100	Medicinal properties
52	Stereospermum suaveolens	Padal	100	Medicinal properties
53	Semaruba glauca	Laxmitaru	100	Medicinal properties
54	Sterculia uren	Jatropha	100	Medicinal properties
55	Acacia catachu	Kadai/Kandol	100	Medicinal properties
56	Anogeissus latifolia	Khair	100	Medicinal properties
57	lennea grandis	Salai	100	Medicinal properties
58	Samanea saman	Rain tree	50	Medicinal properties
59	Phoenix sylvestris	Khajoor	50	Medicinal properties
60	Olea europaea	Jaitun	50	Medicinal properties

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61	Acacia nilotica	Babool	100	Medicinal properties
62	Populus alba	Poplar	50	Medicinal properties
63	Phoenix sylvestris	Khajoor	50	Medicinal properties
64	Morus nigra	Shahtoot	100	Medicinal properties
65	Dalbergia sissoo	Sissoo	100	Medicinal properties
66	Ficus infectoria	Pakad	50	Medicinal properties
67	Ficus obtusifolia	Payar	100	Medicinal properties
68	Terminalia tomentosa	Ain	100	Medicinal properties
69	Pinus kesiya	Pakad	100	Medicinal properties
70	Crateva hygrophyla	Crateva	100	Medicinal properties
71	Cochlospermum religiosum	kadai	100	Medicinal properties
72	Pterocarpus marsupium	Bija	100	Medicinal properties
73	Premna mucronata	Agnimanth	50	Medicinal properties
74	Abies webbiana	Talis	100	Medicinal properties
75	Sesbania grandiflora	Agastya	100	Medicinal properties
76	Mallotus philippinensis	Kampillaka	100	Medicinal properties
77	Betula Utilis	Bhurjapatra	100	Medicinal properties
78	Areca catechu	Pug	100	Medicinal properties
79	Garcinia pedunculata	Amlavetas	100	Medicinal properties
80	Cedrus deodara	Devdar	100	Medicinal properties
81	Delonix regia	Gulmohor	50	Medicinal properties
82	Borassus flabellifer	Tad	50	Medicinal properties
83	Aquilaria agallocha	Agar Wood	100	Medicinal properties
84	Musa balbisiana	Banana	100	Medicinal properties
85	Alstonia scholaris	Sapta parni	50	Medicinal properties
86	Total	-	7,100	-
87	Shrubs	-	-	-
88	Thevetia peruviana	Yellow Kaner	100	Medicinal properties
89	Commiphora wightii	Guggul	100	Medicinal properties
90	Symplacos racemosa	Lodh/Lodhra	100	Medicinal properties
91	Mesua ferrea	Nagakesar	100	Medicinal properties
92	Dillenia indica	Chilta	100	Medicinal properties
93	Holarrhena antidysenterica	Kutaja	100	Medicinal properties
94	Flacourtia indica	Vahecal	100	Medicinal properties
95	Calotropis gigantea	Rui	100	Medicinal properties
96	Premna serratifolia	Premna	100	Medicinal properties
97	Dikamali	Dhawada	100	Medicinal properties
98	Boswellia serrata	Indian Oilbanum	100	Medicinal properties
99	Ziziphus mauritiana	Ber	50	Medicinal properties
100	Bixa orellana	Sindoor	100	Medicinal properties
101	Indigofera tinctoria	Neel	100	Medicinal properties
102	Nyctanthes arbortristis	Parijat	100	Medicinal properties

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103	Punica granatum	Anar	50	Medicinal properties
104	Vitis vinifera	Angoor	100	Medicinal properties
105	Lawsonia inermis	Mehndi	100	Medicinal properties
106	Anando donax	Narkat	100	Medicinal properties
107	Ricinus communis	Erandi	100	Medicinal properties
108	Tamarix gallica	Tamarix	100	Medicinal properties
109	Manilkara hexandra	Kirni	100	Medicinal properties
110	Dolichandrone spathacea	Saranankara	100	Medicinal properties
111	Randia spinosa	Madanphal	60	Medicinal properties
112	Nerium indicum	Karavir	100	Medicinal properties
113	Crossandra Infundibuliformis	Aboli	100	Medicinal properties
114	Jasminum officinale	Jasmine	100	Medicinal properties
115	Pandanus odorifer	Kevada	100	Medicinal properties
116	Clerodendrum serratum	Bharangi	50	Medicinal properties
117	Total	-	2,710	-
118	Herbs	-	-	-
119	Basella alba	Poi	100	Medicinal properties
120	Desmodium gangeticum	Salwan	100	Medicinal properties
121	Uraria picta	Pitwan	100	Medicinal properties
122	Tribulus terrestris	Meida	100	Medicinal properties
123	Flemingia semialata	Semialata	100	Medicinal properties
124	Achyranthes aspera	Aghada	100	Medicinal properties
125	Cynodon dactylon	Dhurva	100	Medicinal properties
126	Desmostachya bipinnata	Kush/Darbha	50	Medicinal properties
127	Aloe vera	Korphad	100	Medicinal properties
128	Brassica nigra	Kali mohari	50	Medicinal properties
129	Hemigraphis flava	Hemigraphis	50	Medicinal properties
130	Acorus calamus linn	Vacha	50	Medicinal properties
131	Atropa belladonna	Suchi	50	Medicinal properties
132	Leucas lspera	Dronapushpi	50	Medicinal properties
133	Chrysanthemum Indicum	Shevanti	50	Medicinal properties
134	Ocimum sanctum	Tulasi	50	Medicinal properties
135	Hemidesmus indicus	Anantamul	39	Medicinal properties
136	Narcissus tazetta	Daffodils	40	Medicinal properties
137	Tagetes erecta	Marigold	50	Medicinal properties
138	Glycyrrhiza glabra	Jeshthamadh	50	Medicinal properties
139	Abrus precatorius	Gunja	50	Medicinal properties
140	Solanum xanthocarpum	Kantkari	50	Medicinal properties
141	Costus speciosus	Keokand	50	Medicinal properties

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142	Sida rhombifolia	Mahabala	50	Medicinal properties
143	Boerhavia diffusa	Punarnava	50	Medicinal properties
144	Total	-	1,629	-
145	Total proposed tress (Trees+Shrubs+Herbs)	-	11,439	-
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	100 kW
	DG set as Power back-up during construction phase	2 nos. x 50 kW
	During Operation phase (Connected load):	10 MW
	During Operation phase (Demand load):	5 MW
	Transformer:	Total 15 MW
	DG set as Power back-up during operation phase:	Total 2 nos. x 500 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Solar Water Heating 100% hot water requirement
2. LED lights in Common area & all open spaces
3. Maximum daylight and ventilation as per ECBC norms

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED in common areas	3 %
2	Energy efficient pumps	2 %
3	Efficient envelope to reduce heat gain	3 %
4	Right glass & WWR for maximum light & ventilation	1 %
5	Solar water heater	10 %
6	Timer for staircase lightening, Lift lobby, Parking area and street light	1 %
7	Overall Energy Saving	4.5 %

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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 Lakh
	O & M cost:	Rs. 3 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for dust suppression	15
2	Socio- Economic Environment	Site sanitation, Toilets, STP, safe drinking water	20
3	-	Disinfection at site	5
4	-	Health check-up for workers, first aid kit	7
5	-	Safety net	5
6	Environment management	For Air, Noise, Water Analysis	3
7	-	Site fencing &noise barrier	2
8	-	Traffic management	2
9	-	Storm water management	5
10	-	Vehicle maintenance, washing area, tyre cleaning	3
11	-	Tree plantation & water utilization	5
12	Training and awareness	Safety personal protective equipment & Training programs	5
13	Total	-	77

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	For treatment of sewage generated.	30	3
2	Effluent Treatment Plant	For treatment of effluent generated.	40	4
3	Rain Water Harvesting	33 nos. of recharge pits with 2 nos.	25	2
4	Storm Water Management	-	20	1
5	Solid Waste Management	Treatment of solid waste	15	3

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6	Solid Waste Management	Treatment of solid waste	15	3
7	Energy Conservation	Solar PV cell	30	3
8	Environmental Monitoring	-	MoEF Approved Lab	5
9	Fire Fighting System	-	20	2
10	Water Treatment Plant	-	5	1
11	tOTAL	-	185	24

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2 Nos.
Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	9860 m2
	Area per car:	25 m2
	Area per car:	25 m2
	Number of 2-Wheelers as approved by competent authority:	Scooters- 556 Nos. (Visitors-51 Nos.+ Normal -505 Nos.) Cycles- 556 Nos. (Visitors-51 Nos.+ Normal -505 Nos.)
	Number of 4-Wheelers as approved by competent authority:	301 Nos. (Visitors-27 Nos.+ Normal -274)
	Public Transport:	NA
	Width of all Internal roads (m):	9 m & 12 m
	CRZ/ RRZ clearance obtain, if any:	NA

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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PP submitted his application for prior Environmental clearance for total plot area of 7,36,200 m2, FSI area of 1,62,577 m2, Non FSI area of 4066 m2 and total BUA of 166643 m2.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(a)B1.

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 91st meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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92nd SEAC-3 day 01

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for Proposed Residential Project

Is a Violation Case: Yes

1.Name of Project	"Shree Gajanan Park"
2.Type of institution	TOR
3.Name of Project Proponent	Shree Buildcon & Associates
4.Name of Consultant	M/s Enviro Resources
5.Type of project	Housing
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.258/2/2/1+2+3+ 258/2/3/3
9.Taluka	Deolali
10.Village	Deolali
Correspondence Name:	Mr. Bajirao K. Suryawanshi.(Partner
Room Number:	S-1
Floor:	Second Floor
Building Name:	Regimental Plaza
Road/Street Name:	NA
Locality:	Nashik
City:	Nashik
11.Whether in Corporation / Municipal / other area	Nashik Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Plans sanctioned by Collector, No. LND/BP/C3/194, Dated :-20/12/2010
	IOD/IOA/Concession/Plan Approval Number: Plans sanctioned by Collector, No. LND/BP/C3/194, Dated :-20/12/2010
	Approved Built-up Area: 28781
13.Note on the initiated work (If applicable)	Environment departemnt had issued final directions vide letter No. SEAC- 2011/CR- 89/TC 11 dated 22/07/2013 And MPCB has filed legal case against us bearing case no.199.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	23,906.00
16.Deductions	3077
17.Net Plot area	20829.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22408.89
	b) Non FSI area (sq. m.): 11915.40
	c) Total BUA area (sq. m.): 34325
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 28780.04
	Approved Non FSI area (sq. m.): 15000
	Date of Approval: 20-12-2010
19.Total ground coverage (m2)	4454.43
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	21
21.Estimated cost of the project	5242

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Manomay	Stilt Parking +9	28.05
2	Swaroop	Stilt Parking +9	28.05
3	Shuban	Stilt Parking +9	28.05
4	Arihant	Stilt Parking +9	28.05
5	Amit	Stilt Parking +9	28.05
6	Anant	Stilt Parking +9	28.05
7	Balchandra	Ground + 1	6.60
8	Balganpati	Ground + 1	6.60
9	Kapila	Stilt Parking +9	28.05
10	Club-House	Ground + 1	6.60

23.Number of tenants and shops	No. of Tenements:- 300
24.Number of expected residents / users	1500
25.Tenant density per hectare	150 Tenements / 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)	60.00 Mt wide Road abutting to Plot and the Fire Station 2.5 KM from project site
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9m.
29.Existing structure (s) if any	• Environment departemnt had issued final directions vide letter No. SEAC- 2011/CR- 89/TC 11 dated 22/07/2013 And MPCB has filed legal case against us bearing case no.199.
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	NMC
	Fresh water (CMD):	135
	Recycled water - Flushing (CMD):	68
	Recycled water - Gardening (CMD):	22
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	225
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	125
	Excess treated water	93
Wet season:	**Source of water**	NMC
	Fresh water (CMD):	135
	Recycled water - Flushing (CMD):	68
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	203
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	125
	Excess treated water	115
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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Below 10 m
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	13 Nos.
	Size of recharge pits :	having size 4mt X 4mt. X 4mt
	Budgetary allocation (Capital cost) :	5.2 Lacs
	Budgetary allocation (O & M cost) :	0.6 lacs
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	NE to SW
	Quantity of storm water:	0.31 m3/Sec
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	203 m3/day
	STP technology:	SBR
	Capacity of STP (CMD):	1 NO. OF 210 m3
	Location & area of the STP:	159.5 m2
	Budgetary allocation (Capital cost):	55.0 lacs
	Budgetary allocation (O & M cost):	15.91lacs/ annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	37 Kg/Day
	Disposal of the construction waste debris:	used on site for filling.
Waste generation in the operation Phase:	**Dry waste:**	300KG/DAY
	Wet waste:	450 KG/DAY
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	30 Kg/day
	Others if any:	not any

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Mode of Disposal of waste:	**Dry waste:**	handed over to authorized recyclers
	Wet waste:	Smart Organic waste composter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	USED AS MANURE
	Others if any:	NA
Area requirement:	**Location(s):**	AS PER LAYOUT
	Area for the storage of waste & other material:	30m2
	Area for machinery:	20 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	13.25 lacs.
	O & M cost:	4.56 lacs/ annum.

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

41.Source of Fuel	Near by pump
42.Mode of Transportation of fuel to site	via road

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43.Green Belt Development	**Total RG area :**	3196.20 m2
	No of trees to be cut :	0
	Number of trees to be planted :	307
	List of proposed native trees :	307
	Timeline for completion of plantation :	Till the 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	Ficus retusa	Nandruk	37	Evergreen and Birds attracting tree.,
2	Pongamia pinnata	Karanj	16	ornamental & medicinal plant
3	Michelia champaca	Chafa	30	Evergreen timber plant, ornamental,
4	Azadiricta indica	Neem	40	Nitrogen fixer, ornamental plant
5	Pluumeria rubra	Red Chafa	14	Fast growing drought resistant tree, ornamental, used for silviculture
6	Pluumeria alba	White Chafa	10	Evergreen ornamental & religious plant
7	Anthocephalus cadamba	Cadamb	26	timber yielding and fruit bearing plant
8	Mangifera indica	Amba	20	Evergreen medicinal plant
9	Saraca indica	Sita ashok	13	Evergreen and Birds attracting tree.,
10	Livistona rotundifolia	Areca palm	25	Evergreen tree
11	Caryota urens	Fishtail palm	30	Evergreen tree
12	Hyophobe legenicaulis	Campagne palm	06	Evergreen tree
13	Syzium cumini	Jambul	15	Evergreen tree fruit bearing tree
14	Areca catechu	Areca palm	25	Evergreen tree fruit bearing tree
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	40KVA
	DG set as Power back-up during construction phase	62.5KVA
	During Operation phase (Connected load):	1413 KW
	During Operation phase (Demand load):	989.17 KVA
	Transformer:	4 nos. of 315 KVA
	DG set as Power back-up during operation phase:	2nos. (82.5 KVA & 62.5KVA each)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

• Using 15W CFL lamps lumini sires in all Loby & Parking instead of 36W Normal tube light
• Use of Energy efficient lamps like T5 / CFL / LED as per design. Use of Energy efficient equipments like low loss Transformers & Switchgears
• Extra Energy Saving by using 50% Street lights in Solar system

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• Using 15W CFL lamps lumini sires in all Loby & Parking instead of 36W Normal tube light • Use of Energy efficient lamps like T5 / CFL / LED as per design. Use of Energy efficient equipments like low loss Transformers & Switchgears • Extra Energy Saving by using 50% Street lights in Solar system	37%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	STP
Emission	Not applicable	DG SET WITH STACK
MSW	Not applicable	SMART composting machine

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	7.25Lacs
	O & M cost:	0.07lacs

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

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1	Air Environment	Water For Dust Suppression Air & Noise monitoring	132
2	Water Environment	Tanker water for construction Water monitoring	1.44
3	Land Environment	Site Sanitation Maintenance	3.85
4	Biological Environment	Gardening	3.76
5	Socio- Economic Environment	Disinfection at site Safety, First Aid, Health Hygiene Facilities Health Check Up Crèches for children Personal Protective Equipment	3.26

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	treatment of sewage	55.0	15.91
2	RWH	pits	5.2	0.6
3	OWC	composting machine	13.25	4.56
4	Landscaping	gardening	37.66	4.73
5	Electrical	solar pannels	7.25	0.07

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:	We had Proposed our Entry- Exits for Residential Vehicles from 24m Wide

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Parking details:	Number and area of basement:	0
	Number and area of podia:	0
	Total Parking area:	3433.62 Sq. M.
	Area per car:	30
	Area per car:	30
	Number of 2-Wheelers as approved by competent authority:	225
	Number of 4-Wheelers as approved by competent authority:	300
	Public Transport:	via bus
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(A)
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 23,906.00 m2, FSI area of 22408.89 m2, Non FSI area of 11915 m2 and total BUA of 34325 m2.

The PP was issued Terms of Reference for EIA and preparation of Environment Management Plan (EMP) in 84th meeting of SEAC-3.

DECISION OF SEAC

*SEAC decided to **defer** the proposal as the EIA report was not received by the Committee. The proposal will be considered after receipt of the same.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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92nd SEAC-3 day 01

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for Proposed residential construction project under PMAY Scheme Wadgaon (Kh) by Pune Municipal Corporation Pune

Is a Violation Case: No

1.Name of Project	Proposed residential construction project under PMAY Scheme by Pune Municipal Corporation Pune
2.Type of institution	Government
3.Name of Project Proponent	The Municipal Commissioner Pune Municipal Corporation Pune
4.Name of Consultant	Pollution & Ecology Control Services (Accredited by NABET, the scope of consultancy is limited to preparation of environmental management plan only. (In accordance with EIA amendment notification 3rd March 2016)
5.Type of project	Housing Project under PMAY 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	S.NO.39/2A/1(P)+2A/2(P)+39/2B/1(P) +S.NO.39/2B/1/3(P)+S.NO.39/2B/2(P) +S.NO.39/2B/1/4(P)+S.NO.40/1/3+ S.NO.40/1/4+S.NO.40/1/5(P)+ S.NO.40/2/1+S.NO.40/2/2+S.NO.40/2/6 WADGAON (KH) TAL. HAVELI, DIST. PUNE
9.Taluka	Haveli
10.Village	Wadgaon Khurd
Correspondence Name:	Mrs. Meera Sabnis (Executive Engineer PMAY Pune Municipal Corporation)
Room Number:	-
Floor:	4th Floor
Building Name:	Veer Sawarkar Bhavan
Road/Street Name:	Congress Bhavan Road
Locality:	Shivaji Nagar
City:	Pune 411005
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Sanctioned by Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: CC No. 0413/19 dated 29/05/2019
	Approved Built-up Area: 41261.79
13.Note on the initiated work (If applicable)	Nil
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Sanction from PMC
15.Total Plot Area (sq. m.)	17137.00
16.Deductions	1713.70
17.Net Plot area	15423.70
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 41261.79
	b) Non FSI area (sq. m.): 11726.30
	c) Total BUA area (sq. m.): 52988.09
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 41261.79
	Approved Non FSI area (sq. m.): 11726.30
	Date of Approval: 29-05-2019
19.Total ground coverage (m2)	5561.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	36

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21.Estimated cost of the project	1382740000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A1, A2, A3, A4, A5, A6, A7	P + 12	37.20
2	A8	P + 9	28.65

23.Number of tenants and shops	1108 tenants only.
24.Number of expected residents / users	5540
25.Tenant density per hectare	650 per hector(PMAY EWS Scheme)
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Proposed 30 mt DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	7.50 mt
29.Existing structure (s) if any	One temporary teen shed is present at site which will be demolished during construction phase
30.Details of the demolition with disposal (If applicable)	Teen shed will be used for barricading

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PMC
	Fresh water (CMD):	499
	Recycled water - Flushing (CMD):	249
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	758
	Fire fighting - Underground water tank(CMD):	300 KL
	Fire fighting - Overhead water tank(CMD):	160 KL
	Excess treated water	415
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	499
	Recycled water - Flushing (CMD):	249
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	748
	Fire fighting - Underground water tank(CMD):	300 KL
	Fire fighting - Overhead water tank(CMD):	160 KL
	Excess treated water	425
Details of Swimming pool (If any)	Not Providing	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	Not applicable	499	499	Not applicable	49	49	Not applicable	450	450
Gardening	Not applicable	10	10	Not applicable	0	0	Not applicable	0	0
Domestic	Not applicable	249	249	Not applicable	24	24	Not applicable	224	224

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Confined water table is around 31-36 m BGL
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	10 No's.
	Size of recharge pits :	2 Mt. x 3 Mt. x 6 Mt.
	Budgetary allocation (Capital cost) :	7.5 lakh
	Budgetary allocation (O & M cost) :	1.45 lakh
	Details of UGT tanks if any :	Capacity of the U.G.T. = 1047900 Lit. UGT capacity details will be as below: i) Treated Water Storage Tank =373950 Lit. ii) Raw Water Storage tank = 373950 Lit. iii) Fire fighting tank = 300000 Lit.
35.Storm water drainage	**Natural water drainage pattern:**	North to South
	Quantity of storm water:	8238 Cu.m./Year
	Size of SWD:	200-450 MM RCC PIPE
Sewage and Waste water	**Sewage generation in KLD:**	674
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. of STP with 680 KLD capacity
	Location & area of the STP:	327 SQM For location refer Annexure III attached with form 1, 1A
	Budgetary allocation (Capital cost):	87.00 lakh
	Budgetary allocation (O & M cost):	27.65 lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation waste generation will be 3995 Cu.m.
	Disposal of the construction waste debris:	Will be used for back-filling
Waste generation in the operation Phase:	**Dry waste:**	968 Kg/Day
	Wet waste:	1580 Kg/Day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	40 Kg/Day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Will be handover to authorized vendor (SWaCH)
	Wet waste:	Will be treated by mechanized composting unit
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as a manure
	Others if any:	No
Area requirement:	**Location(s):**	For location refer Annexure III attached with form 1, 1A
	Area for the storage of waste & other material:	16.80 SQM
	Area for machinery:	126 SQM
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	30 Lakh
	O & M cost:	15.43 Lakh

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	7 - 8.5	6.5 - 7.5	-
2	C.O.D.	mg/lit.	300-400	< 50	50
3	B.O.D.	mg/lit.	250 - 300	< 10	10
4	S .S.	mg/lit.	350 - 450	< 5	20

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	Diesel - 33.76 Liters/hr.	1	2	Not applicable	Not applicable

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1713.70
	No of trees to be cut :	31
	Number of trees to be planted :	307
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	3-5 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Ailanthus excelsa	Maharukh	13	IT IS USED AS FOODER FOR GOATS AND IT IS ONE OF THE BEST TREES USED TO TRAP SUSPENDED PARTICULATE
2	Gmelina arborea	Shivan	11	ITS ROOTS ARE ONE OF THE 10 ROOT INGREDIENTS OF THE FAMOUS AYURVEDIC MEDICINE "DASHMULARISHTA". FRUITS ARE EDIBLE AND EATEN BY BIRDS,CATTLE,AND EVEN HUMANS.WOOD IS OF VERY GOOD QUALITY.THIS USEFUL AND BEAUTIFUL SPECIES CAN GROW ANYWHERE AND IS AN EXCELLENT OPTION FOR AVENUES, PARKS AND AFFORESTATION
3	Peltopherum	Copper pod	28	IT IS AN ORNAMENTAL TREE AND ITS ALSO CONSIDERED
4	Pongamia pinnate	karanj	4	IT HAS MEDICINAL AND INDUSTRIAL USES
5	Tabebuia aregentia	Trumpet tree	12	IT HAS MEDICINAL USES AND ITS WOOD IS USED IN INTERIOR FINISH,BOAT BUILDING CARTS AND MANY OTHER KINDS
6	Saraca indica	Sita ashoka	5	IT IS AN ORNAMENTAL TREE.IT ALSO HAS MEDICINAL
7	Murraya koengii	Kadipatta	13	THE LEAVES OF THIS TREE ARE USED IN INDIAN COOKING
8	Mangifera indica	Mango	10	IT'S A FRUIT TREE
9	Tabebuia rosea	Pink trumpet tree	18	IT HAS MEDICINAL USES AND ITS WOOD IS USED IN
10	Lagestromia flosreginea	Lagestromia	21	IT IS WONDERFUL ORNAMENTAL TREE FOR PARKS. IT
11	Cassia Fistula	Bhava	22	IT HAS MEDICINAL USE. THE FLOWER OF THIS TREE HAS A RITUAL IMOPRTANCE

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12	Michelia champaca	Champa	23	IT IS A ORNAMENTAL TREE AND ITS WOOD IS HAS A TIMBER USES AND THE FLOWER OF CHAMPA IS USED IN WORSHIP
13	Erythrina indica	Indian coral tree	10	IT IS VALUED AS AN ORNAMENTAL TREE AND IT HAS MEDICINAL USE
14	Psidium guajava	Guava tree	5	IT'S A FRUIT TREE
15	Spathodea campanulata	African tulip tree	14	IT IS AN ORNAMENTAL TREE.IT ALSO HAS MEDICINAL USES
16	Swetenia mahagony	Mahagony	20	THE BARK OF TREE IS USED FOR DEYING PURPOSE AND IT HAS MEDICINAL USES
17	Plumeria alba	Temple tree	8	IT IS OFTEN CULTIVATED AS ORNAMENTAL PLANT ITS WOOD HAS A MEDICINAL USES
18	Bauhenia purpurea	Kanchan	7	IT CAN GROW IN A RANGE OF SOILS.IN THE PROCESS THEY IMPROVE THE SOL QUALITY.MEDICINAL USES OF ALL PARTS ARE MENTIONED IN AYURVEDA.HARD DURABLE WOOD , GOOD FUEL WOOD, USED IN LEATHER TANNING PROCESS.MANY PARTS OF THE TREES ARE EDIBLE.ON DUSSHERA ,KANCHAN LEAVES ARE DISTRIBUTED BY PEOPLE A TRADITION WHICH SHOULD BE STOPPED TOTALLY IT IS DESTRUCTIVE AND CREATES NOTING BUT GARBAGE
19	Nyctanthes arbo-rtristis	Parijatak	27	IT HAS MEDICINAL USES AND ITS WOOD WOOD IS USED FOR BOARDING
20	Dillenia indica	Elephant apple	5	ORNAMENTAL GARDEN TREE BUT IS USEFUL IN MANY OTHER WAYS TOO.SAPLINGS ARE MADE FROM SEEDS.IN THE WILD,SEED DISPERSAL TAKES PLACE THROUGH ELEPHANTS AND TERMITES
21	Syzyguim jambos	Jamun	5	IT'S A FRUIT TREE
22	Neolamarckia cadamba	Kadamb	26	KADAMBA TREE HAS RELIGIOUS IMPORTANCE.AS A FAST GROWING INDIGENOUS TREE IT IS PREFERRED FOR ROADSIDE,RIVERSIDE,PARKS AND SPORTS-GROUND PLANTATIONS.TIMBER IS LIGHT,SOFT WITH A WHITISH-YELLOW COLOUR
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	-	0	0

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47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	45 KW
	DG set as Power back-up during construction phase	62.5 KVA x 1 No.
	During Operation phase (Connected load):	2542 KW
	During Operation phase (Demand load):	1785 KW
	Transformer:	630 KVA x 3 Nos. + 315 KVA x 1 No
	DG set as Power back-up during operation phase:	180 KVA x 1 No
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Energy saving using advanced (LED) light fittings:118.33 KWh / day
Energy saving using solar panels for water heating :2821 .5 Unit/day

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy saving using advanced (LED) light fittings	118.33 KWh / day
2	Energy saving using solar panels for water heating	2821.5 unit/day

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Waste water generation during operation phase	Not applicable	STP of 680 Cu. m. capacity will be installed to treat waste water
Solid waste generation during operation phase	Not applicable	Mechnized Composting Unit will be used to treat wet waste generation

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	271 lakh
	O & M cost:	7.12 lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Erosion Control	watering for dust supression	3
2	Site safety	Barricades & Nets	25
3	Site sanitation	Mobile toilets, sanitation	5
4	Health checkup	For labours	1

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Waste water	STP of 680 KLD	87.00	27.65
2	RWH Pits	10 No. of RWH Pits	7.5	1.45
3	Storm water networking	Internal storm water piping	24.00	1.50
4	Solid waste manegment	Mechanized composting Unit	30.00	15.45
5	Green belt development	307 no. of trees to plant	30.00	3.00
6	Solar Water System	Solar System –@70 lit / flat	157.00	1.00
7	Electrical	Electrical substation & DG Set	102.00	5.5
8	Solar PV Panel	Common area Lightning	12.50	0.62
9	Environmental monitoring	Air, water, noise, soil, six monthly compliances	0	2.60

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

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Parking details:	**Number and area of basement:**	Nil
	Number and area of podia:	Nil
	Total Parking area:	3973
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	1163
	Number of 4-Wheelers as approved by competent authority:	0
	Public Transport:	-
	Width of all Internal roads (m):	6 mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	NA
	Other Relevant Informations	The proposed project is under PMAY scheme which will be developed by Pune Municipal Corporation
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

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SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 17137 m2, FSI area of 41261.79 m2, Non FSI area of 11726.30 m2 and total BUA of 52988.09 m2.

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

DECISION OF SEAC

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During discussion following points emerged:

1. There is no exemption for Government organizations from implementing CER. PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF & CC circular dated 1/05/2018 along with details of fund utilization & agreement or consent of executor. PP may include provision of electric crematorium in CER.

2. Even though as per DCR, no car space is required, PP to provide nominal 30-40 car parking spaces for vehicles belonging to taxi / auto drivers etc.

*SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the above conditions.*

Specific Conditions by SEAC:

1) There is no exemption for Government organizations from implementing CER. PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF & CC circular dated 1/05/2018 along with details of fund utilization & agreement or consent of executor. PP may include provision of electric crematorium in CER.
2) Even though as per DCR, no car space is required, PP to provide nominal 30-40 car parking spaces for vehicles belonging to taxi / auto drivers etc.

FINAL RECOMMENDATION

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

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92nd SEAC-3 day 01

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for Hospital construction

Is a Violation Case: Yes

1.Name of Project	Acharya Vinoba Bhave Rural Hospital attached to Jawaharlal Nehru Medical College
2.Type of institution	Private
3.Name of Project Proponent	Dean
4.Name of Consultant	Pollution & Ecology Control Services
5.Type of project	Teaching Hospital
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	Khasra no. 410 at Sawangi (Meghe), Wardha
9.Taluka	Wardha
10.Village	Sawangi (Meghe)
Correspondence Name:	Datta Meghe Institute of Medical Sciences (Deemed University)
Room Number:	Atrey Layout, Pratapnagar
Floor:	NA
Building Name:	NA
Road/Street Name:	Ring Road
Locality:	Atrey Layout, Pratapnagar
City:	Nagpur
11.Whether in Corporation / Municipal / other area	Gram Panchayat
12.IOD/IOA/Concession/Plan Approval Number	7/12 - Gut No. 410
	IOD/IOA/Concession/Plan Approval Number: Approval date - 19-05-1997
	Approved Built-up Area: 47627
13.Note on the initiated work (If applicable)	? Total land Area : 54,135 sq.m (13.38 Acres) ? Total Built up Area (Hospital) : 47,627 sq. m (As per Sanctioned Drawing) ? Built up Area before EIA Notification 14.09.2006 : 20,029 Sq. M. ? Built up Area After EIA Notification 14.09.2006 : 27,598 Sq.m. ? Total Built up Area (Hospital) : 47,627 sq. m (As per Sanctioned Drawing) ? Under violation as per EIA Notification 2006: Built up area is :- 27,598 sq.m.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Gram Panchayat
15.Total Plot Area (sq. m.)	54,135 sq.m
16.Deductions	16,240 Sq.m.
17.Net Plot area	37,895 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 75790 Sq. M. (As per DCR rules for medical institutions)
	b) Non FSI area (sq. m.): 634 Sq.m. NON FSI (in terms non hospital areas)
	c) Total BUA area (sq. m.): 47627
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 75790 Sq. M. (As per DCR rules for medical institutions)
	Approved Non FSI area (sq. m.): Not required
	Date of Approval: 19-05-1997
19.Total ground coverage (m2)	16128.25 Sq. m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	43 %
21.Estimated cost of the project	930000000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Hospital Main Building Building A & C	4	16.8
2	Block 1 (Surgery Ward B)	1	3.3
3	Block 2 (Surgery Ward -A)	1	3.3
4	Ortho Building D	3	12.6
5	Ravi Nair Physiotherapy Department	3	12.6
6	Kitchen Building	3	12.6
7	Hospital Dharmashala Building G.Fl &1st Fl.	2	6.6
8	Hospital Dharmashala Building 2nd Fl.	1	5.2
9	Bungalow A1	1	3.2
10	Bungalow A2	1	3.2
11	OSD / A3 Type Quarter	1	3.2
12	New Surgery Building	6	22.65
13	Sai Temple	2	6.4
14	Doctor's Quarter - 1 (P.G. Accommodation)	3	9.6
15	Doctor's Quarter - 2 (P.G. Accommodation)\	3	9.6
16	B-Type quarter 12-13 & 14-15 (for Linen store & Laundry)	1	3.2

23.Number of tenants and shops	Not Applicable
24.Number of expected residents / users	Patient - 1300 (max), Residential - 105 , Commercial - 1000 , Floating Population - 8000 .
25.Tenant density per hectare	Not Applicable, its a Teaching Hospital Project.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	15 m approach road form NH-204 (20 m. Wide)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Maintained minimum turning radius of 6 mtr.
29.Existing structure (s) if any	Yes, The construction part of the project is completed hence applied under notification dated 8th March 2018 for violation cases.

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

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Maharashtra Jeevan Pradhikaran and Ground Water
	Fresh water (CMD):	628
	Recycled water - Flushing (CMD):	131
	Recycled water - Gardening (CMD):	60
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	819
	Fire fighting - Underground water tank(CMD):	50
	Fire fighting - Overhead water tank(CMD):	nil
	Excess treated water	356
Wet season:	**Source of water**	Maharashtra Jeevan Pradhikaran and Ground Water
	Fresh water (CMD):	628
	Recycled water - Flushing (CMD):	131
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	759
	Fire fighting - Underground water tank(CMD):	50
	Fire fighting - Overhead water tank(CMD):	nil
	Excess treated water	416
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

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Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	759	00	759	152	00	152	607	00	607
Gardening	60	00	60	60	00	60	00	00	00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Ground Water Level : 5 to 10 m bgl
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	10 pits are provided
	Size of recharge pits :	2m X 2m X 3m Depth
	Budgetary allocation (Capital cost) :	Rs. 3,00,000/-
	Budgetary allocation (O & M cost) :	Rs. 20,000/- per annum.
	Details of UGT tanks if any :	Under ground water tank is provided for fire fighting as per norms.

35.Storm water drainage	**Natural water drainage pattern:**	Storm water drain is constructed according to natural slope.
	Quantity of storm water:	--
	Size of SWD:	--

Sewage and Waste water	**Sewage generation in KLD:**	607 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	2 Nos. 1) 400 KLD and 2) 600 KLD
	Location & area of the STP:	Within the Plot Area
	Budgetary allocation (Capital cost):	Rs 2.0 Crores
	Budgetary allocation (O & M cost):	Rs 20.00 Lacs per annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste debris
	Disposal of the construction waste debris:	Waste debris is utilized in making of internal road
Waste generation in the operation Phase:	**Dry waste:**	445 kg/day
	Wet waste:	667 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	195 kg/day
	STP Sludge (Dry sludge):	30
	Others if any:	Not Applicable

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Mode of Disposal of waste:	**Dry waste:**	The waste have been segregate properly as per CPCB norms and disposed off to the Authorized local authority waste collection system.
	Wet waste:	The waste have been segregate properly as per CPCB norms and disposed off to the Authorized local authority waste collection system.
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	The biomedical waste have been collected & segregated separately as per CPCB norms in Four different Colour bins and disposed off properly to Local Authorized Medical waste disposal Agency.
	STP Sludge (Dry sludge):	STP Dry Sludge have been used as manure for greenbelt development.
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Area earmark for the bio medical waste and Solid waste separately.
	Area for the storage of waste & other material:	Area earmark for the bio medical waste and Solid waste separately.
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 40 Lacs
	O & M cost:	Rs. 15 Lacs / annum

37.Effluent Charecterestics

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

Amount of effluent generation (CMD):	40 KLD
Capacity of the ETP:	40 KLD
Amount of treated effluent recycled :	38 KLD
Amount of water send to the CETP:	Not Applicable
Membership of CETP (if require):	Not Applicable
Note on ETP technology to be used	Collection tank - Settling tank - Filter tank have been constructed for treatment of waste water
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	Silent DG Set	Diesel 50 ltr/day	2	15	0.15	50 degree C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	50 Ltr/day	00	50 Ltr/day

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41.Source of Fuel	Local supplier
42.Mode of Transportation of fuel to site	It is available in near by town.

43.Green Belt Development	**Total RG area :**	10036.20 Sq. M.
	No of trees to be cut :	None
	Number of trees to be planted :	About 1000 trees are planted and preserved as a part of the development. And 600 trees will be planted in future.
	List of proposed native trees :	Mango , Ashok, Jamun,\Neem, Pipal, Shisam, Gulmohar etc.
	Timeline for completion of plantation :	Not applicable

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Magnifera indica	Mango	100	Fruit giving tree
2	Sarca Asoca	Ashok	450	Semi-deciduous, Large
3	Eugenia jambolana	Jamun	50	Fruit giving, Medicinal tree
4	Azadirachta Indica	Neem	150	Medicinal tree with large canopy
5	Ficus religiosa	Pipal	10	Medicinal tree, Spiritual significance
6	Dalbergia sissoo	Shisam	25	Timber tree, Shade tree
7	Ficus Benjamina	Fig	10	Deciduous, Large
8	Melia azedarach	White Cedar	15	Medicinal tree, Timber tree
9	Terminalla catappa	Badam	25	Fruit giving, Medicinal tree
10	Delonix Regia	Gulmohar	100	Deciduous, Large
11	Pongamia pinnata	Karanji	15	Medicinal tree
12	Roystonea regia	Royal Palm	50	Deciduous, Large
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	Construction Phase: 200 KVA
	DG set as Power back-up during construction phase	Not Applicable
	During Operation phase (Connected load):	Operation Phase: 3 MW
	During Operation phase (Demand load):	Operation Phase: 2.5 MW
	Transformer:	Yes, installed.
	DG set as Power back-up during operation phase:	For D. G. Sets : 2 Nos. 750 KVA , 1 No. 500 KVA, 1 No. 320 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

* 230 KVA is being generated by Solar Energy. This solar energy has been used for hospital common area, outer lighting and hot water.
* Through Wind Energy 100 KVA is acquired for Hospital common area.
* Solar water heater has been provided for Hospital for more than 20 % of the hot water demand.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Energy - Street Light and Common Area	100 KVA
2	Solar Energy for Water Heater	130 KVA
3	Wind Energy is acquired for Hospital common area.	100 KVA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Vehicular Movement	Dense plantation and Dust Suppression have been adopted to control air Pollution	About 1000 trees are planted and preserved as a part of the development. And 600 trees will be planted in future.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 1.5 Crores
	O & M cost:	Rs. 3.00 Lacs 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 Pollution Control	Particulate Matter	Rs. 2.00 Lacs

b) Operation Phase (with Break-up):

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

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1	Air Pollution Control	There is no air pollution except during run of D.G. sets in case of power failure	12.00	2.00
2	Water Pollution Control	STP	200.00	20.00
3	Solid Waste Management (Bio Medical Waste)	Agreement with Authorised agency to disposal of Solid waste	40.00	15.00
4	Greenbelt	Plantation	15.00	2.00
5	Environmental Monitoring	Air quality , Water and wastewater quality; Noise levels.	--	5.00

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:	The project is well connected to Tar road is connected by NH-204

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Parking details:	**Number and area of basement:**	None
	Number and area of podia:	None
	Total Parking area:	Open parking is provided which is adequate to accommodate all the vehicles, areas are demarcated for Four wheeler & Two Wheeler separately. 3 gates are provided to avoid traffic congestion and entry and exit are kept separate.
	Area per car:	As per DCR Norms
	Area per car:	As per DCR Norms
	Number of 2-Wheelers as approved by competent authority:	As per DCR Norms
	Number of 4-Wheelers as approved by competent authority:	As Per DCR Norms
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	6 m.
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	None
	Other Relevant Informations	Application for Environmental Clearance under notification dated 8th March 2018 for Violation cases.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

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TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
15.Total Plot Area (sq. m.)	54,135 sq.m	57,665 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non FSI)	FSI area (sq. m.): 75790 Sq. M. (As per DCR rules for medical institutions) Non FSI area (sq. m.): 634 Sq.m. NON FSI (in terms non hospital areas) Total BUA area (sq. m.): 47627	FSI area (sq. m.): 69198.00 (As per DCR rules for medical institutions) Non FSI area (sq. m.): 10380.0 Total BUA area (sq. m.): 79580.00 BUA Can be constructed.

22.Number of buildings & its configuration	--	--
2.Block 1 (Surgery Ward B)	Floor 1 ht. of the bldg. 3.3 m. Not under violation	Proposed to Demolished Block 1 and Proposed New Gyenac ward & Ancillary ward building G+4 Ht of the bldg. 20 m. (5937.17 Sq.m. BUA)
3. Block 2 (Surgery Ward -A)	Floor 1 ht. of the bldg. 3.3 m. Not under violation	Proposed to Demolished Block 2 and Proposed New Cancer Hospital Floor B+G+1 and Ht.9.00 mtrs. (888.00 Sq.m. BUA)
4. Ortho Building D	Floor 3 ht. of the bldg. 12.6 m.	Floor G+3 ht. of the bldg. 16.80 m. (2389 Sq. m. BUA new proposed construction at 3rd floor)
5. Ravi Nair Physiotherapy Department	Floor 3 ht. of the bldg. 12.6 m.	Floor G+2. (1310 Sq. m. BUA new proposed construction at 2nd floor) Ht. 14.6 m.
7. Hospital Dharmashala Building G.Fl &1st Fl."	Floor 2 ht. of the bldg. 6.6 m.	Name Change : HOSPITAL CENTRAL STORE & SURGERY WARD Floor G+2 and Ht. 11.80 m.
"8. Hospital Dharmashala Building 2nd Fl."	Floor 1 ht. of the bldg. 5.2 m.	Name Change : HOSPITAL CENTRAL STORE & SURGERY WARD Floor G+2 and Ht. 11.80 m.

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

SEAC-AGENDA-0000003511

PP submitted his application for prior Environmental clearance for total plot area of 54,135 m2, FSI area of 75790 m2, Non FSI area of 634 m2 and total BUA of 47627 m2.

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

DECISION OF SEAC

SEAC-AGENDA-0000000311

During discussion following points emerged:

1. PP to revise CER plan incorporating asset creation activities indicating numbers and locations of the activity.

2. PP to submit Fire Tender Movement Plan showing clear road width of 6 meters and turning radius of 9 meters ; PP to submit cross section of roads at four places including UGT , OWC and DG set location showing clear road width 6 meter, 1.5 meter distance left from building line and spaces left for plantation, parking, service lines, foot paths, etc.

3. PP has obtained CFO NOC for hospital. PP to submit CFO NOCs for rest of the buildings.

4. PP to submit Socio -economic infrastructure within vicinity land specially existing primary school, market hospital etc.

5. PP to submit Source of water for different identified purposes with the permissions required from the concerned authorities, both for surface water and the ground water (by CGWA) as the case may be, Rain water harvesting, etc,

6. PP to submit Environmental status report clearly mentioning the mitigation measures undertaken already.

7. PP to submit ecological damage assessment in terms of embodied energy and global sectors with LCA approach and with applicable coefficient ultimately reporting in terms of cost. PP to carry out assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory duly notified under the Environment (Protection) Act,1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.

8. PP to submit water supply NOC.

9. PP to submit detailed hydrogeological report.

10. PP to submit details of RG plan incorporating local native fruit bearing trees in plantation plan.

SEAC-AGENDA-0000000311

*PP requested for time to submit the information sought; after deliberations committee asked PP to **comply** with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

92nd SEAC-3 day 01

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for Proposed Expansion of Residential & Commercial Development

Is a Violation Case: No

1.Name of Project	HI LIFE
2.Type of institution	Private
3.Name of Project Proponent	Rising Welworth Enterprises LLP
4.Name of Consultant	Enviro Resources
5.Type of project	Housing
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, we have obtained previous EC letter no.SEIAA-EC-0000000375 dated August 7th 2018
8.Location of the project	Survey No. 18/6, Plot D+B2
9.Taluka	Mulshi
10.Village	Thergaon
Correspondence Name:	Mr Nilesh Palrehsa
Room Number:	NA
Floor:	NA
Building Name:	VTP House
Road/Street Name:	Pune Nagar Road, Behind Shakti Sports
Locality:	Near Inorbit mall , Wadgaonsheri
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation (PCMC)
12.IOD/IOA/Concession/Plan Approval Number	B.P /Thergaon/02/2019 dated 4/1/2019
	IOD/IOA/Concession/Plan Approval Number: B.P /Thergaon/02/2019 dated 4/1/2019
	Approved Built-up Area: 44736.42
13.Note on the initiated work (If applicable)	We have initiated work as per old EC letter no.SEIAA-EC-0000000375 dated August 7th 2018
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	27,289.00 Sq.m.
16.Deductions	570.29 Sq.m.
17.Net Plot area	26718.71 Sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 69748.17
	b) Non FSI area (sq. m.): 79,110.12
	c) Total BUA area (sq. m.): 148858.30
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 69748.17
	Approved Non FSI area (sq. m.): 79110.12
	Date of Approval: 04-01-2019
19.Total ground coverage (m2)	6449.25
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.63
21.Estimated cost of the project	2400000000

22.Number of buildings & its configuration

SEAC-AGENDA-0000000311

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	T1	G+2P+20	69.95
2	T2	G+2P+20	69.95
3	T3	G+2P+20	69.95
4	T4	G+2P+20	69.95
5	T5	G+2P+20	69.95
6	T6	G+2P+20	69.95
7	MHADA	P+11	36.15
8	Commercial	B+G+9	46.60

23.Number of tenants and shops	Residential: 690 MAHADA: 71 Commercial 1: 28,288.40 Sq. m
24.Number of expected residents / users	Residential: 3450 Mhada :355 Floating: 4592
25.Tenant density per hectare	284Tenement / 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)	6m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Nearest Fire Station: PCMC fire station 5.06 km
29.Existing structure (s) if any	We have initiated excavation for as per EC received letter no.SEIAA-EC-0000000375 dated August 7th 2018
30.Details of the demolition with disposal (If applicable)	Not any

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

SEAC-AGENDA-0000000311

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	467
	Recycled water - Flushing (CMD):	280
	Recycled water - Gardening (CMD):	33
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	780
	Fire fighting - Underground water tank(CMD):	Residential 300 ,Mhada - 75 Commercial -200m3/day
	Fire fighting - Overhead water tank(CMD):	Residential -20 , Mhada - 5 Commercial - 20 m3/day
	Excess treated water	344
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	467
	Recycled water - Flushing (CMD):	280
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	731
	Fire fighting - Underground water tank(CMD):	Residential 300 ,Mhada - 75 Commercial -200 m3/day
	Fire fighting - Overhead water tank(CMD):	Residential -20 , Mhada - 5 Commercial - 20 m3/day
	Excess treated water	377
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	NA	NA	NA	NA	NA	NA	NA	NA	NA

SEAC-AGENDA-0000000311

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	7 to 15mt
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6 nos.
	Size of recharge pits :	2m X 2mX 2.5m
	Budgetary allocation (Capital cost) :	10.0 Lakhs
	Budgetary allocation (O & M cost) :	1.0 Lakhs/Annum
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	25.58 m3/min
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	657 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 no. of 250,1 no. of 200,&1 no. of 60& 1 no. 200CMD
	Location & area of the STP:	Location as per Layout. STP 1 – 110.07 STP 2 –86.40 STP 3 –95.15 STP 4 –43.48
	Budgetary allocation (Capital cost):	218.26 lac
	Budgetary allocation (O & M cost):	31.73 lac/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25kg/day
	Disposal of the construction waste debris:	Used for filling and road development
Waste generation in the operation Phase:	**Dry waste:**	Resi& mhada761& Commercial - 689
	Wet waste:	Resi&MHADA 1142& Commercial- 459
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	142kg/day
	Others if any:	E waste= 17.8 Kg/day

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Mode of Disposal of waste:	**Dry waste:**	Handed over to SWACH
	Wet waste:	Smart Organic Waste Composter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	authorized Recycler
Area requirement:	**Location(s):**	As per layout
	Area for the storage of waste & other material:	153
	Area for machinery:	calculated in above area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	54.50 Lacs
	O & M cost:	11.87 lacs/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	2 nos. of 200 kVA	HSD	2	72.77	5	543
2	2 nos. of 1010 KVA	HSD	2	45.55	5	500
3	1 no. of 125 kVA	HSD	1	41.43	4	553
4	1 No. of 100 kVA-	HSD	1	38.15	4	553

40.Details of Fuel to be used

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

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41.Source of Fuel	Near by Diesel Pump Stations
42.Mode of Transportation of fuel to site	Via Road

43.Green Belt Development	**Total RG area :**	5473.10 Sq.mt
	No of trees to be cut :	0
	Number of trees to be planted :	368
	List of proposed native trees :	As per below list
	Timeline for completion of plantation :	Till the 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	Michelia champaca	Son chaafa	14	Evergreen , hardy ,flowering and quick growing.
2	Lagerstromia flos-reginae	Flos-reginae	14	Grows in dry climate, consumes less water
3	Anthocephalus cadamba	Kadamb	14	GGood for roadside plantation and provide shade.
4	Bauhinia purepurea	Kanchan	21	Hardy and easy to grow tree on land with less soil layers.
5	Azadirachta indica	Neem	14	Good for restoration of dryer parts, good for air purifier and have medicinal properties
6	Cassia fistula	Bahawa	14	Grows in less soil / murrumand even in rocky areas.
7	Cordia	Cordia	14	Good flowering tree.
8	Khayagrandis	Khaya/Mahogany	14	Fruit bearing tree, shady,deciduous
9	Grewia tiliaefolia	Dhaman	14	Deciduous, drought resistant
10	Tectonagrandis Saag	Saag	14	Deciduous, flowering tree
11	Papaya	Papaya	14	Fruit bearing tree
12	Arthocarpusheterophyllus	Phanus	14	Fruit bearing tree
13	Murraya paniculata	Kunti	14	Blooms throughout the year, flowers with excellent fragrance
14	Erythrina variegata	Pangara	14	Quick growing ,flowering tree, a nitrogen fixing tree
15	Annona reticulata	Ramphal	14	Fruit bearing tree
16	Mutingia calabura	Singapore Cherry	14	Fast growing , Medium size, fruits bearing, attracts birds
17	Bauhinia racemosa	Apta	14	Quick growing ,flowering tree, a nitrogen fixing tree resistant
18	Nyctanthes arbor-tristis	Prajakta	14	Fragrant flowers
19	Mangifera indica	Mango	14	Fruit bearing tree
20	Syzygium cumini	Jam/Jambhul	14	Fruit bearing tree, attracts birds
21	Acrussapota	Chikku	14	Fruit bearing tree, attracts birds
22	Saraca indica	Sita ashok	14	Evergreen tree with rounded crown, hardy tree

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23	Albezzia lebbeck	Shirish	14	Quick growing, hardy, good soil binder, drought tolerant
24	Butea monosperma	Palas	14	Used in forestation of saline & water logged regions
25	Ailanthus excelsa	Maharukh	25	Deciduous, quick growing, 15-20m shady.
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)	150 kVA
	DG set as Power back-up during construction phase	125 KVA - 2nos.
	During Operation phase (Connected load):	8855.59
	During Operation phase (Demand load):	3713.03
	Transformer:	Residential:630 kVA - 4 Nos. Commercial:630 kVA - 3 Nos
	DG set as Power back-up during operation phase:	Residential: 200 kVA-2 Nos. MHADA -100 kVA- 1 No. Commercial: 1010 kVA - 2 Nos.+ 125 kVA- 1 No.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

• Solar water heating systems will be done for bathrooms.
• Solar lights will be provided for common amenities like Street lighting & Garden lighting.
• CFL & LED based lighting will be done in the common areas, landscape areas, signage's, entry gates and boundary compound walls etc.
• Auto Timer switches will be provided for Street lights, Garden lights, Parking & staircase Lights & other common area Lights, for saving electrical energy.
• Water level controllers with timers will be used for Water pumps.
• To create awareness to end consumer or flat owner, for using energy efficient light fittings like CFL, T5 Lamps & LED light

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Annual Savings System in % With Solar PV Power	16
2	Solar Lighting (for Landscape/Street Lighting	5
3	Solar Panel for Hot water	20

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4	Total saving	12

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Domestic sewage	Not applicable	1 no. of 250,1 no. of 200,&1 no. of 60& 1 no. 200 CMD
MSW	Not applicable	SMART Composting Machine
DG sets	Not applicable	Residential: 200 kVA-2 Nos. Commercial: 1010 kVA - 2 Nos.+ 125 kVA- 1 No.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 280.05 Lacs
	O & M cost:	Rs 23.80 Lac / 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	Water For Dust Suppression ,air and noise monitoring	1.68
2	Water	Tanker water for construction, water monitoring	3.48
3	Land	Site Sanitation	5.4
4	Biological	Gardening	3.51
5	Socio-Economic	Safety, First Aid, Health Hygiene Facilities, Disinfection at site, Health Check Up, Crèches for children, Personal Protective Equipment, CFL lamps for labour hutments	8.3

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	STP	218.26	31.73
2	Solid waste	OWC	54.5	11.87
3	Environmental monitoring	Environmental monitoring	OUTSIDE LAB	10.18
4	Land	Gardening	35.14	7.55
5	Energy Conservation	Solar Water Heating	280.05	23.80
6	RWH	PITS	10.0	1.0

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	ONE
Parking details:	**Number and area of basement:**	1 no. of basement having area 2850 Sq. mt
	Number and area of podia:	NA
	Total Parking area:	33744.89 Sq Mt
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	2728
	Number of 4-Wheelers as approved by competent authority:	773
	Public Transport:	via bus
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 a (B2)
	Court cases pending if any	NA
	Other Relevant Informations	NOT ANY

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

SEAC-AGENDA-0000000311

PP submitted his application for prior Environmental clearance for total plot area of 27,289 m2, FSI area of 69748.17 m2, Non FSI area of 79,110.12 m2 and total BUA of 148858.30 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to obtain CFO NOC.

*SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the above conditions.*

Specific Conditions by SEAC:

1) PP to obtain CFO NOC.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000311

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for proposed construction project by M/s G.K. Associates

Is a Violation Case: No

1.Name of Project	Silverland Residency Phase-I
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vinod Chandwani
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential & Commercial
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	S.No. 63/2, 64/7 Ravet
9.Taluka	Haveli
10.Village	Ravet
Correspondence Name:	Mr. Vinod Chandwani
Room Number:	-
Floor:	-
Building Name:	G K Associates
Road/Street Name:	Opposite Shivar Garden,
Locality:	Pimple Saudagar
City:	Pune-411027.
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: B.P/EC/RAVET/02/19
	Approved Built-up Area: 61181.45
13.Note on the initiated work (If applicable)	43114.72 Sq.m (As per EC dated 18/12/2018)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Applicable
15.Total Plot Area (sq. m.)	16008.00 m2
16.Deductions	1773.25 m2
17.Net Plot area	14234.75 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 28108.93 m2
	b) Non FSI area (sq. m.): 33072.52 m2
	c) Total BUA area (sq. m.): 61181.45
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 28108.93 m2
	Approved Non FSI area (sq. m.): 33072.52 m2
	Date of Approval: 15-03-2019
19.Total ground coverage (m2)	3217.01 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.09% of Total plot area (16008.0m2) & 22.59 % of Net plot area (14234.75 m2)
21.Estimated cost of the project	1170000000

22.Number of buildings & its configuration

SEAC-AGENDA-000000311

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A (MHADA + Commercial)	G+ P+10	32.35
2	Building- B	2P+11	37.70
3	Building - C	2P+11	37.70
4	Building - D	2P+11	37.70
5	Building - E	2P+11	37.70
6	Building - F	2P+11	37.70
7	Building - G	2P+8	29.00
8	Building - H (MHADA)	2P+11	37.70

23.Number of tenants and shops	Total Tenements – 557 Nos. Shops- 14 Nos
24.Number of expected residents / users	Residential Users: 2785 Nos, Commercial Users: 108 Nos., Total Users:2893 Nos
25.Tenant density per hectare	357
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18M wide 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	Not Applicable
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

SEAC-AGENDA-000000311

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	398.15 m3/day (One Time)
	Recycled water - Flushing (CMD):	128.02 m3/day
	Recycled water - Gardening (CMD):	12.32 m3/day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	257.81 m3/day
	Fire fighting - Underground water tank(CMD):	450 m3
	Fire fighting - Overhead water tank(CMD):	200 m3
	Excess treated water	206.89 m3/day
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	385.83 m3/day m3/day (One Time)
	Recycled water - Flushing (CMD):	128.02 m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	257.81 m3/day
	Fire fighting - Underground water tank(CMD):	450 m3
	Fire fighting - Overhead water tank(CMD):	200 m3
	Excess treated water	219.21 m3/day
Details of Swimming pool (If any)	Not ApDimension of Swimming Pool: NA Total water Requirement in KLD: NA Water requirement in KLD: NA Details of Plant & Machinery used for treatment of Swimming pool water: NA Details of quality to be achieved for swimming pool water and parameters to be monitored: NA plicable	

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

SEIAA-AGENDA-0000000311

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon – 12 m to 14 m BGL Post monsoon – 2 m to 5 m BG
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	12 Nos
	Size of recharge pits :	(Dia. 2 m and 3 m height) with 6" Dia. 60 m deep bore well via 1 No. of 2 m dia. 3 m deep de-silting chamber with O&G trap.
	Budgetary allocation (Capital cost) :	Rs. 12.50 Lakh
	Budgetary allocation (O & M cost) :	Rs. 1.95 Lakh/Year
	Details of UGT tanks if any :	Domestic UG tank Capacity: 423 m3 Flushing tank Capacity: 211 m3 Fire UG tank Capacity: 450.00m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	504.10m3/ year
	Size of SWD:	300 mm to 600 mm
Sewage and Waste water	**Sewage generation in KLD:**	347.23 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	230 m3/day, 90 m3/day & 40 m3/day
	Location & area of the STP:	175.86 m2
	Budgetary allocation (Capital cost):	STP-1 (230m3/day)- Rs. 56.00 Lakh, STP-2 (90m3/day)- Rs 32.6 Lakh, STP-3 (40m3/day)- Rs 21.0 Lakh
	Budgetary allocation (O & M cost):	STP-1 (230m3/day)- Rs. 11.58 Lakh/Year, STP-2 (90m3/day)- Rs 6.71 Lakh/Year, STP-3 (40m3/day)- Rs 5.76 Lakh/Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	35 kg/day
	Disposal of the construction waste debris:	Use for Leveling.
Waste generation in the operation Phase:	**Dry waste:**	574 kg/day
	Wet waste:	848 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	54.3 kg/day
	Others if any:	-

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Mode of Disposal of waste:	**Dry waste:**	SWaCH
	Wet waste:	Organic Waste Converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure after treatment in OWC
	Others if any:	-
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	94.00 m2
	Area for machinery:	Included in other material area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.35.50 Lakh
	O & M cost:	Rs.6.41 Lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set- 160 KVA- 1 No	HSD	S-1	5.22 m	To be provided	To be provided
2	DG Set- 82.5 KVA-1 No.	HSD	S-2	4.45 m	To be provided	To be provided

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	30 lit./hr @ 75% Loading	30 lit./hr @ 75% Loading

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2	HSD	Not applicable	18.9 lit./hr @ 75% Loading	18.9 lit./hr @ 75% Loading
41.Source of Fuel		Bharat Petroleum Corporation Limited/Hindustan Petroleum		
42.Mode of Transportation of fuel to site		By Roadway		

43.Green Belt Development	**Total RG area :**	1585.6 m2
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	200 Nos
	List of proposed native trees :	200 Nos
	Timeline for completion of plantation :	After completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mimusops Elengi	Bakul	13	Indegineous species, medium sized, yellow flowering, attract birds.
2	Cassia Glauca	Cassia	15	Yellow flowering, avenue creation, can survive with small qty of water, controls soil erosion, shady.
3	Acrus Sapota	Chickoo	14	Edible fruit, Bird attracting species.
4	Michelli champaka	Son chafa	15	Great fragrant flowers, flowers are in demand throughout the year, used for worshipment. Creates avenue.
5	Royale Palm	Bottle palm	14	Tall growing, Avenue plant
6	Mangifera Indiaca	Mango	08	Edible fruit, Bird attracting species
7	Bauhinia Blackenea	Kanchan	08	Indigenous specie, maroon color flowering, shady
8	Cordia Sabistana	Cordia	08	Orange flowering, evergreen foilege, shady.
9	Milingtonia	Indian Cork tree	08	Local name- Booch, White fragrant flowering, Grows tall, Shady.
10	Plumeria alba	Chafa	10	Fragrant white-yellow flowers
11	Wodyetia Bifurcata	Foxtail palm	17	Avenue Plant.
12	Ficus Benjamina	Nandaruk	12	Grows tall, very dense foliage. Shady. Can be Trimmed and shaped. Highlighter of garden
13	Azardirachta Indica	Kadulimb	08	Medicinal value, To control soil erosion. To improve soil erosion
14	Erythrina Variegata	Indian Coral Tree Angara	08	It is a fast growing deciduoustree, Reduce cholesterol, Helpfight obesity, Improve digestive strength
15	Drypetes	Putranjiva	05	Moderate sized evergreen tree its leaves, fruits and stone/seeds are used for medicinal purpose
16	Cordia Dichtoma	Bhokar	05	Medicinal value, Edible fruits

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17	Gmelina arborea	Shivan	07	Gmelina is a fast-growing, unarmed, moderately sized to large deciduous tree
18	Pongamia pinnata	Karanj	07	Medicinal value, Drought tolerant species, To control soil erosion, Hardy plant.
19	Poppulus spp.	Popular	07	Medicinal value, To control soil erosion
20	Pterospermum	Muchkund	07	It is a perennial tree,it grows intropical & moist climates.medicinal use
21	Emblica	Awala	04	Medicinal value, To control soil erosion
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	62.5 KVA
	During Operation phase (Connected load):	2424 KW
	During Operation phase (Demand load):	1251 KW
	Transformer:	2 No. X 630 KVA & 1 No. X 315 KVA
	DG set as Power back-up during operation phase:	160KVA-01 nos &, 82.5 KVA- 01 nos
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Measures to reduce energy consumption :

? Generally we have proposed high efficiency transformer, motors etc. to reduce losses.

? Electronic Ballasts and Energy efficient lamp source either triposphere or LED are proposed for common area & general lighting with automatic time based control to save power by switching ON & OFF the lights at appropriate time. The estimated saving in common lighting consumption is up to 20 % due to adopting above measures.

49.Detail calculations & % of saving:

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Serial Number	Energy Conservation Measures	Saving %
1	Total of all Savings for (per year)	20%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	-	Green belt will be provided.
Water	STP OF capacity 230 KLD & 40 KLD is installed &excess treated water used for flushing &gardening	STP of capacity 90 KLD will be installed &excess treated water used for flushing &gardening
Noise	Acoustically enclosed DG set is installed	Noise monitoring will be done in once a fortnight. Traffic manageent plan to be prepared.
Solid Waste	-	Wet Waste will be treated in OWC. STP sludge will be Used as Manure after treatment in OWC Dry Waste will be given to SWACH

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 86.00 Lakh
	O & M cost:	Rs. 1.8 Lakh/Year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air & Noise Monitoring	0.50 Lakh/Year
2	Water Environment	Tanker Water for Construction, Water Monitoring	0.50 Lakh/Year
3	Land Environment	Site Sanitation –Mobile toilets	0.50 Lakh/Year
4	Socio-economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Creches For Children, Food for children, Personal Protective Equipment	1.00Lakh/Year

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-1 (230m3/day)	-	56.00 Lakh	11.58 Lakh/Year
2	STP-2 (90m3/day)	-	32.60 Lakh	6.71 Lakh/Year
3	STP-3 (40m3/day)	-	21.0 Lakh	5.76 Lakh/Year
4	RWH	-	12.5 Lakh	1.95 Lakh/Year
5	MSW (OWC)	-	35.50 Lakh	6.41 Lakh/year
6	Energy System	-	86.00 Lakh	1.8 Lakh/Year
7	Landscaping	-	18.00 Lakh	5.00 Lakh/year
8	Safety Equipment's	-	10.00 Lakh	2.00 Lakh/Year
9	Post EC Monitoring	-	-	2.50 Lakh/year
10	Dry Waste Management	-	-	3.46 Lakh/year

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	1 Nos. 4500.16 m2
	Total Parking area:	17223.22 m2
	Area per car:	Open Parking – 25 m2 Covered Parking – 30 m2
	Area per car:	Open Parking – 25 m2 Covered Parking – 30 m2
	Number of 2-Wheelers as approved by competent authority:	1132 Nos
	Number of 4-Wheelers as approved by competent authority:	285 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	6.0 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	B2
	Court cases pending if any	NA
	Other Relevant Informations	-

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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PP submitted his application for prior Environmental clearance for total plot area of 16008 m2, FSI area of 28108.93 m2, Non FSI area of 33072.52 m2 and total BUA of 61181.45 m2.

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

DECISION OF SEAC

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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92nd SEAC-3 day 01

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for Proposed Residential Project at S.No. 10/3+13/4+13/8+14/1+14/2+14/5+14/6, Village-Hinjewadi, Tal-Mulshi, Dist- Pune, Maharashtra by Rahul Construction.

Is a Violation Case: No

1.Name of Project	Proposed Residential Project at S.No. 10/3+13/4+13/8+14/1+14/2+14/5+14/6, Village-Hinjewadi, Tal-Mulshi, Dist- Pune, Maharashtra by Rahul Construction.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Siddharth Kunkulol, by Rahul Construction.
4.Name of Consultant	VK: e environmental LLP
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	S.No. 10/3+13/4+13/8+14/1+14/2+14/5+14/6, Village-Hinjewadi, Tal-Mulshi, Dist- Pune, Maharashtra.
9.Taluka	Mulshi
10.Village	Hinjewadi
Correspondence Name:	Mr. Siddharth Kunkulol, by Rahul Construction.
Room Number:	115/B
Floor:	Ground Floor
Building Name:	Rahul Capital
Road/Street Name:	Prabhat Road
Locality:	Prabhat Road
City:	Pune 411004
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Received-BMU/CR No. 216 dated 9.05.2019
	IOD/IOA/Concession/Plan Approval Number: BMU/CR No. 216 dated 9.05.2019
	Approved Built-up Area: 54568
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	19450
16.Deductions	3731.09
17.Net Plot area	15718.91
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 30541.18
	b) Non FSI area (sq. m.): 24027.56
	c) Total BUA area (sq. m.): 54568.74
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 30541.18
	Approved Non FSI area (sq. m.): 24027.56
	Date of Approval: 09-05-2019
19.Total ground coverage (m2)	4629.86
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	30
21.Estimated cost of the project	750000000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A1	2B+Stilt +Podium + 22 Floors	69.90
2	Wing A2	2B+Stilt +Podium + 22 Floors	69.90
3	Wing A3	2B+Stilt +Podium + 22 Floors	69.90

23.Number of tenants and shops	396 Tenements
24.Number of expected residents / users	Residential Users- 1980
25.Tenant density per hectare	203.5 Tenements/ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Existing Main road – 24.00 m. wide. Approach road to the Building 12.00 M. wide.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min 9m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	Grampanchayat of Hinjewadi
	Fresh water (CMD):	178
	Recycled water - Flushing (CMD):	89
	Recycled water - Gardening (CMD):	11.10
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	280.40
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	10
	Excess treated water	113.64
Wet season:	**Source of water**	Grampanchayat of Hinjewadi
	Fresh water (CMD):	178
	Recycled water - Flushing (CMD):	89
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	2
	Total Water Requirement (CMD) :	269.30
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	10
	Excess treated water	124.74
Details of Swimming pool (If any)	Pool Size 15mtrs x 15 mitra - Volume 2,50,000 Ltrs. Pool Size 25mtrs x 50mitrs- Volume 15,00,000 Ltrs. Make up water :2 KLD Capital Cost : 94 lakhs O&M Cost : 4 Lakhs	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post monsoon 3.70 meter, Pre monsoon 7.0 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	8
	Size of recharge pits :	2m*2m*2m
	Budgetary allocation (Capital cost) :	Rs.8,00,000/-
	Budgetary allocation (O & M cost) :	Rs.80,000/-
	Details of UGT tanks if any :	Fire Water Tank : 200 Domestic Water Tank: 268 Reclaimed Water Tank near STP: 134
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern: The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge pits.
	Quantity of storm water:	8.47 m3/min
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	240.57
	STP technology:	MBBR
	Capacity of STP (CMD):	250 kld
	Location & area of the STP:	On Ground, 120 Sq.m
	Budgetary allocation (Capital cost):	Rs. 66,20,000/-
	Budgetary allocation (O & M cost):	Rs.10,40,000/-

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Dry waste (Kg/day): 8 kg/day Wet waste (Kg/day): 12 kg/day =Total waste generated: 20 kg/day
	Disposal of the construction waste debris:	The waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling.
Waste generation in the operation Phase:	**Dry waste:**	396 kg/day
	Wet waste:	594 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	36 kg/day
	Others if any:	e-waste: 2.7 kg/day

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Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWaCH
	Wet waste:	Will be treated in on site OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge will use as manure
	Others if any:	e-waste will be handed over to authorized vendors
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	13.5 Sq.m
	Area for machinery:	45 Sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 16,75,000/-
	O & M cost:	Rs. 3,65,040/-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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43.Green Belt Development	**Total RG area :**	1571.89 Sq.m
	No of trees to be cut :	00
	Number of trees to be planted :	255
	List of proposed native trees :	Given Below
	Timeline for completion of plantation :	Till 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	Azadiracta indica	Neem	5	Medicinal
2	Mangifera indica	Mango	5	Fruit Tree
3	Artocarpus heterophyllus	Jackfruit	5	Fruit Tree
4	Psidium guajava	Guava	5	Fruit Tree
5	Manikara zapota	Chikoo	5	Fruit Tree
6	Cassia fistula	Bahava	10	Flowering
7	Nyctanthes arbor-tristis	Parijatak	15	Flowering
8	Citrus sp.	Lemon	5	Fruit Tree
9	Michelia champaca	Chapha	5	Flowering
10	Lagerstroemia flos-regineae	Taman	10	Flowering
11	Mimusops elengi	Bakul	5	Flowering
12	Anthocephallus cadamba	Kadamb	25	Flowering
13	Terminilia arjuna	Arjuna	20	Fruit Tree
14	Milingtonia hortensis	Indian cork tree	30	Flowering
15	Ficus retusa	Nandruk	25	Ornamental
16	Mahogany swietenia	Mahogany	30	Ornamental
17	Maurraya paniculata	Kunti	15	Flowering
18	Phoenix slyestris	Date palm	15	Ornamental
19	Saraca Asoka	Sita Ashok	20	Ornamental
45.Total quantity of plants on ground				

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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	Ficus Panda	1'	55
2	Raphis Palm	1'6"	55
3	Helicona Psittacorum	1'	45
4	Caesalpinia	3'	42
5	Budha Belly Bamboo	1'	40
6	Jatropha	1'5"	34

7	Tecoma Gaudi Chaudi	2'	35
8	Hamelia Pateernis	1'	30
9	Lantana Orange Red	9"	35
10	Wadelia	1'	40
11	Variegated Tagar	1'	30
12	Alipinia Varigated	9"	25
13	Lantana Violet	9"	20

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	11.08 kW
	DG set as Power back-up during construction phase	25 kW
	During Operation phase (Connected load):	2031 kVA
	During Operation phase (Demand load):	947 kW
	Transformer:	2 * 630 kVA
	DG set as Power back-up during operation phase:	300 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar Water Heating System + Solar PV Panel + LED Light fittings : 22.58 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Water Heating System + Solar PV Panel + LED Light fittings :	22.58 %

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.1309000/-
	O & M cost:	Rs. 4,40,000/-

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	18.52
2	Land Environment	Labour Camp toilets & sanitation	4.8
3	Health and Safety	Labour Safety Equipments and training	4
4	Health and Safety facility	Disinfection and Health Check-ups	0.51
5	Environment Management	Environmental Monitoring cell	1.70
6	Environment Management	Environmental Monitoring	1.85

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	66.20	10.40
2	Solid Waste Management	1 OWC	16.75	3.65
3	Landscaping	Development & maintenance of green area	322	3.2
4	Rain Water Harvesting	Recharge pits	8	0.8
5	Renewable Energy	Solar Hot water, PV	49.09	4.4
6	Environmental Monitoring	-	-	1.85
7	Lightning Arrester	-	1.40	-
8	Swimming Pool	-	94	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:	Proposed project is located at Hinjewadi area.

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Parking details:	**Number and area of basement:**	2 basement = 8507.51 Sq.m
	Number and area of podia:	Stilt + 1 podium = 8041.66 Sq.m
	Total Parking area:	21401 Sqm
	Area per car:	12.5 Sq.m
	Area per car:	12.5 Sq.m
	Number of 2-Wheelers as approved by competent authority:	396
	Number of 4-Wheelers as approved by competent authority:	132
	Public Transport:	NA
	Width of all Internal roads (m):	Minimum 6.0 m wide internal road is provided and 9.0 m Turning radius will be provided.
	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) Building and Construction project
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

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SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 19450 m2, FSI area of 30541.18 m2, Non FSI area of 24027.56 m2 and total BUA of 54568.74 m2.

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

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DECISION OF SEAC

During discussion following points emerged:

1. PP to obtain fire NOC beyond 35.5 m height.

*SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the above conditions.*

Specific Conditions by SEAC:

1) PP to obtain fire NOC beyond 35.5 m height.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000311

92nd SEAC-3 day 01

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for Environmental Clearance for Proposed Residential & commercial Project at S. No. 35/1/1/B + 48/2/A + 48/2/C (Part A) Bavdhan Taluka-Mulshi, Dist- Pune by Mihir Homes Enterprise LLP.

Is a Violation Case: No

1.Name of Project	Residential & commercial Project at S. No. 35/1/1/B + 48/2/A , 48/2/C (Part A) Bavdhan Taluka-Mulshi, Dist- Pune by Mihir Homes Enterprise LLP.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Piyush Nyati
4.Name of Consultant	Vke environmental LLP, Pune
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	S. No. 35/1/1/B + 48/2/A _ 48/2/C (Part A) Bavdhan
9.Taluka	Mulshi
10.Village	Bavdhan
Correspondence Name:	Mr. Piyush Nyati
Room Number:	5th Floor
Floor:	Nyati Unitree
Building Name:	Pune Nagar Road
Road/Street Name:	Yerawada – Pune 411006
Locality:	Pune
City:	PMC
11.Whether in Corporation / Municipal / other area	Under Process
12.IOD/IOA/Concession/Plan Approval Number	Under process
	IOD/IOA/Concession/Plan Approval Number: Under process
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	29620.74
16.Deductions	3047.19
17.Net Plot area	26573.55
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 72737.54
	b) Non FSI area (sq. m.): 72615.58
	c) Total BUA area (sq. m.): 145353.12
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 30-04-2019
19.Total ground coverage (m2)	13525.37
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	50.8
21.Estimated cost of the project	3298800000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A1 Wing	P1+P2+P3+ St+18 floors	69.70
2	A2Wing	P1+P2+P3+ St+18 floors	69.70
3	A3 Wing	P1+P2+P3+ St+18 floors	69.70
4	A4 Wing	P1+P2+P3+ St+18 floors	69.70
5	B1 Wing	P1+P2+P3+ St+18 floors	69.70
6	B2 Wing	P1+P2+P3+ St+18 floors	69.70
7	B3 Wing	P1+P2+P3+ St+18 floors	69.70
8	B4 Wing	P1+P2+P3+ St+18 floors	69.70
9	B5 Wing	P1+P2+P3+ St+18 floors	69.70
10	C1 Wing	B+P1/P2/P3+ St+18 floors	69.70
11	C2 Wing	B+P1/P2/P3+ St+18 floors	69.70

23.Number of tenants and shops	Residential: 792 Tenements Commercial: 36 shops , Offices: 96
24.Number of expected residents / users	Residential: 4248 and Commercial: 891 Total=5139
25.Tenant density per hectare	Tenement = 267
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	4.23 km Nearest fire station: Kothrud fire station
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	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PMC
	Fresh water (CMD):	409.5
	Recycled water - Flushing (CMD):	204.7
	Recycled water - Gardening (CMD):	35
	Swimming pool make up (Cum):	1
	Total Water Requirement (CMD) :	650.2
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	10 for each residential building 20 for each commercial building
	Excess treated water	257.8
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	409.5
	Recycled water - Flushing (CMD):	204.7
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	1
	Total Water Requirement (CMD) :	615
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	0 for each residential building 20 for each commercial building
	Excess treated water	292.8
Details of Swimming pool (If any)	Size of swimming pool- 12 x 6 x 1.2 Make up water quantity- 1 CMD	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	9 to 10.00 m bgl
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	11 recharge pit
	Size of recharge pits :	Dimension of recharge pit 1.2 m x 1.2m with 3 m depth
	Budgetary allocation (Capital cost) :	Rs. 20,90,000/-
	Budgetary allocation (O & M cost) :	Rs. 62,700/-
	Details of UGT tanks if any :	Domestic Water Tank : 453 CMD Raw Water Tank : 90.6 CMD Fire Water Tank : 300 CMD Drinking Water Tank : 70 CMD
35.Storm water drainage	**Natural water drainage pattern:**	Proper storm water drainage system is proposed. Excess storm water will be discharged into near by storm water line.
	Quantity of storm water:	19.2 m3/min
	Size of SWD:	2 nos of 450 mm dia pipes
Sewage and Waste water	**Sewage generation in KLD:**	552.21 kld
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	560 kld
	Location & area of the STP:	On Ground and Area required for STP: - 280 Sq.mtr.
	Budgetary allocation (Capital cost):	110 Lacs
	Budgetary allocation (O & M cost):	07.50 Lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	20 kg/day (Wet+Dry)
	Disposal of the construction waste debris:	The maximum construction waste will be used within the site for leveling purposes and base course preparation of internal approach roads.
Waste generation in the operation Phase:	**Dry waste:**	981.53 kg/day
	Wet waste:	1472.30 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	82.8 kg/day
	Others if any:	E-Waste- 8.2 Kg / day

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Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling and disposal purpose
	Wet waste:	Wet waste will be treated onsite organic waste converter Machine.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure.
	Others if any:	Handed over to authorized recycler for further handling and disposal purpose
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	26 Sq. Meter
	Area for machinery:	73.00 Sq. Meter
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	29.98 Lakh
	O & M cost:	7.52 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		

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42.Mode of Transportation of fuel to site	Not applicable

43.Green Belt Development	**Total RG area :**	2657.35 sqm
	No of trees to be cut :	29
	Number of trees to be planted :	514
	List of proposed native trees :	Refer Below
	Timeline for completion of plantation :	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	Acrus sapota	Chikku	19	Fruit bearing tree, attracts birds
2	Syzygium cumimi	Jam/Jambhul	19	Fruit bearing tree, attracts birds
3	Mangifera indica	Mango	19	Fruit bearing tree, attracts birds
4	Arthocarpus heterophyllus	Phanus	19	Fruit bearing tree
5	Carica papaya	Papaya	19	Fruit bearing tree
6	Murraya paniculata	Kunti	19	Blooms throughout the year, flowers with excellent fragrance
7	Annona reticulata	Ramphal	19	Fruit bearing tree
8	Khaya grandis	Khaya	19	Fruit bearing tree, shady deciduous
9	Tectona grandis	Saag	19	Deciduous, flowering tree
10	Mutingia calabura	Singapore cherry	19	Fast growing, medium sized, fruit bearing, attracts birds.
11	Nyctanthesarbortristis	Prajakta	19	Fragrant flowers
12	Saraca indica	Sita ashok	19	Evergreen tree, with rounded cover, hardy tree
13	Anthocephallus cadamba	Kadamba	19	Shady, large tree, ball shaped flowers
14	Grewia tiliaefolia	Dhaman	19	Deciduous, Drought resistant
15	Butea monosperma	Palas	19	Used in forestation of saline & water logged regions
16	Albezzia lebbeck	Shirish	19	Quick growing,hardy, good soil binder, drought tolerant
17	Bauhinia racemosa	Apta	19	Deciduous, drought resistant
18	Cordia	Cordia	19	Fragrant flowers
19	Azadirachta indica	Neem	19	Medicinal properties, quick growing, good air purifier
20	Pongamia pinnata	Karanj	19	It is larval host for burterflies. Nitorgen fixing plants.
21	Acrus Phyllanthus emblica sapota	Amla	19	Medicinal properties
22	Psidium gujava	Peru	19	Fruit bearing tree, attracts birds
23	Bauhinia Purpurea	Kanchan	20	Grows in less soil,drought resistant

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45.Total quantity of plants on ground	

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

Serial Number	Name	C/C Distance	Area m2
1	Thevetia nerifolia	0.9	445.07
2	Stachytarpheta	0.45	148.36
3	Plumbago zeylanica	0.45	148.36
4	Acorus calamus	0.30	74.18
5	Aloe vera	0.30	74.18
6	Ocimum sanctum	0.30	74.18
7	Nerium oleander	0.75m	296.71
8	Hibiscus rosa sinensis	0.60m	222.54

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 kW
	DG set as Power back-up during construction phase	1 DG set of 40 kvA
	During Operation phase (Connected load):	6306 kvA
	During Operation phase (Demand load):	2584 KW
	Transformer:	4 nos of 630 KVA
	DG set as Power back-up during operation phase:	2 nos. of 200 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	Yes

48.Energy saving by non-conventional method:

Solar power, Solar PV Cell , CFL LED lighting for Landscape areas, signages etc., Auto timers for common lighting, Water level controller with timer for water pumps
Total Energy savings = 14.66 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy savings due to Solar Power	18.74
2	Energy saving due to Solar PV Cell	14.66

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed

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Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs.1,29,60,000/-
	O & M cost:	Rs 4,10,400 /-

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	Erosion control – dust suppression measures, barricading and top soil preservation	20.11
2	Land	Labour Camp toilets & sanitation	4.8
3	Health and Safety	Labour Safety Equipments and training	4.0
4	Health and Safety	Disinfection and Health Check-ups	0.51
5	Environment Management	Environmental Monitoring Cell	1.75
6	Environment Monitoring	Environmental Monitoring	1.85

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	MBBR Technology	110	7.5
2	Solid Waste Management	Solid Waste Management	29.98	7.52
3	Landscaping	Development and Maintenance	34.56	8.30
4	Rain Water Harvesting	Recharge pits	20.9	0.62
5	Energy Saving	Solar PV panels, Solar Hot water	129.6	4.1
6	Environmental Monitoring	Environmental Monitoring	-	0.84

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

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No Information Available		

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Proposed site is located at Bavdhan. The road network within the site has been designed to catter to the traffic loads of the project .
Parking details:	**Number and area of basement:**	1 no. 2906 sq. m.
	Number and area of podia:	3 nos. 33445.50 sq. m.
	Total Parking area:	48241 sq. m.
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1856
	Number of 4-Wheelers as approved by competent authority:	1180
	Public Transport:	Yes. Available in vicinity area
	Width of all Internal roads (m):	6 m wide internal road is provided and 9 m. Turning radius will be provided.
	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 Building Construction Project
	Court cases pending if any	No
	Other Relevant Informations	Residential & Commercial Project locate at Bavdhan
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	-

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

Brief information of the project by SEAC

PP remained ***absent***. The proposal was deferred.

DECISION OF SEAC

PP remained ***absent***. The proposal was deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEIAA decision above.

SEAC-AGENDA-0000000311

92nd SEAC-3 day 01

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for Proposed Residential and Commercial Project "Trinity" at S.no.46/1/2,46/2/1/2,46/2/1/3,46/2/2,Pisoli,Pune, Maharashtra

Is a Violation Case: No

1.Name of Project	Trinity
2.Type of institution	Private
3.Name of Project Proponent	M/s Ganraj Infrastructure LLP
4.Name of Consultant	Vke:Environmental
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	S.no.46/1/2,46/2/1/2,46/2/1/3,46/2/2,Pisoli,Pune
9.Taluka	Haveli
10.Village	Pisoli
Correspondence Name:	Rahul Garg
Room Number:	-
Floor:	Ground floor
Building Name:	San Mahu Complex
Road/Street Name:	Bund Garden Road
Locality:	Opp Puna Club
City:	Pune
11.Whether in Corporation / Municipal / other area	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: Applied date- 04 May 2019
	Approved Built-up Area: 58351.72
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	20,400 sq.m
16.Deductions	3812.44 sq.m
17.Net Plot area	16587.56 sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 28035.50
	b) Non FSI area (sq. m.): 30316.22
	c) Total BUA area (sq. m.): 58351.72
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 28035.50
	Approved Non FSI area (sq. m.): 30316.22
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	4964.88
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29.93%
21.Estimated cost of the project	1350000000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	WING A1	2P+G+11	36.00
2	WING A2	2P+G+11	36.00
3	WING A3	2P+G+11	36.00
4	WING A4	4P+10	35.02
5	WING A5	4P+10	38.55
6	WING A6	4P+10	38.55
7	WING A7	4P+10	39.00
8	WING A8	4P+10	38.40
9	WING A9	4P+10	38.40
10	WING A9	4P+10	38.40
11	Club House	G+1	7.65

23.Number of tenants and shops	394 tenants, 23 shops
24.Number of expected residents / users	1970 Resident, 193 shops
25.Tenant density per hectare	487
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	15m wide road is existing from nearest fire station for proposed site
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m for access of fire tender movement
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PMRDA/Recycled water from STP
	Fresh water (CMD):	177.00
	Recycled water - Flushing (CMD):	93.00
	Recycled water - Gardening (CMD):	13.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	283.00
	Fire fighting - Underground water tank(CMD):	450.00
	Fire fighting - Overhead water tank(CMD):	160.00
	Excess treated water	125.00
Wet season:	**Source of water**	PMRDA/Recycled water from STP
	Fresh water (CMD):	177.00
	Recycled water - Flushing (CMD):	93.00
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	270.00
	Fire fighting - Underground water tank(CMD):	450.00
	Fire fighting - Overhead water tank(CMD):	160.00
	Excess treated water	138.00
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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	25-30
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	12
	Size of recharge pits :	1.5m X 1.5m X 1.5 m
	Budgetary allocation (Capital cost) :	14
	Budgetary allocation (O & M cost) :	0.75
	Details of UGT tanks if any :	Drinking - 67.00 CuM Domestic - 199.00 CuM Fire- 450.00 CuM Flushing - 83 CuM
35.Storm water drainage	**Natural water drainage pattern:**	As per contour slope.
	Quantity of storm water:	0.31 m3/sec
	Size of SWD:	450 mm x 300 mm
Sewage and Waste water	**Sewage generation in KLD:**	243 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No of STP of 255 KLD
	Location & area of the STP:	As per Layout
	Budgetary allocation (Capital cost):	70.15 lakhs
	Budgetary allocation (O & M cost):	12.18 lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	25 kg/day
	Disposal of the construction waste debris:	Excavated earth material will be used for filling of plinth area & top soil for Landscaping
Waste generation in the operation Phase:	**Dry waste:**	423 kg/day
	Wet waste:	610 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	37.89 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Handed Over to SWACH
	Wet waste:	Through Mechanical Composter (Smart OWC)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as manure for Landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Locations are as per master layout
	Area for the storage of waste & other material:	20.75
	Area for machinery:	46.75
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	20.75 lac
	O & M cost:	4.2 lac/annum

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.0-8.5	6.5-9.0	6.5-9.0
2	Oil & Grease	mg/l	10.0-20.0	<10	<10
3	Biological Oxigen Demand	mg/l	200-250	<10	<10
4	Chemical Oxigen Demand	mg/l	350-450	<50	<50
5	Total Suspended Solid	mg/l	150-200	<10	<10
6	Total Nitrogen	mg/l	40-50	<10	<10
7	Nitrate	mg/l	15-16	<5	<5
8	DissolvePO4	mg/l	13-15	<5	<5
9	Fecal Coliform	MPN/100 ml	10^6	Nil	Nil

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	320 Kva X 1 NOS.	320KVA- 69 litre/hr @ 100% Loading	1	5	0.152 m	491 ºC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	320KVA- 69 litre/hr @ 100% Loading	NA

41.Source of Fuel	Authorized Dealer
42.Mode of Transportation of fuel to site	Barrels in Closed Tampo

43.Green Belt Development	**Total RG area :**	2190.30 sq.m
	No of trees to be cut :	0
	Number of trees to be planted :	210
	List of proposed native trees :	Shirish,Neem,Maharukh,Namdruk,Karanj,Sita Ashoka,Katesavar,Bahava,Bakul
	Timeline for completion of plantation :	Till the completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Saraca ashoka	Sita Ashoka	13	Shady trees with yellow flowers
2	Butea monosperma	Palas	10	Medium sized deciduous tree,Beautiful orange flowers, Butterfly host plant
3	Bauhinia variegata	Kanchan	11	medicinal value, Drought tolerantspecies.
4	Nyctanthus arbor-tritrits	Parijatak	7	Fragrant flowers, Medicinal value
5	Gmelina arborea	Shivan	15	Fast growing deciduous tree with yellow flower, medical use tree
6	Pongamia pinnata	Karanj	10	Medicinal value, Drought tolerant species, To control soil erosion
7	Mimusops elengi	Bakul	17	sweet scented flowers, medicinal tree with edible parts
8	Manilkara zapota	Chiku	10	Medium sized Fruit Bearing Tree
9	Dalbbergia sisoo	Shisav	9	Medicinal value, Bird attractingSpecies
10	Annona squaosa	Sitafal	12	Medium sized Fruit Bearing Tree
11	Ailanthus excelsa	Maharukh	15	Large tree, good for roadside plantation
12	Anthosaphalus kadamba	Kadamb	8	Shady, large tree, ball shaped flowers.
13	Erythrina indica	Pangara	10	Medium sized deciduous tree. Bright scarlet flowers.

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14	Murrayya paniulate	Kunti	12	Small tree, Fragrant white flowers, Butterfly host plant
15	Azadirachta indica	Neem	10	Medicinal value
16	Lagestromia Flosre Genia	Tamhan	11	State flower tree of Maharashtra, Medium sized tree, beautifulpurple flowers
17	Ficus carica	Fig Tree	18	Medium sized Fruit Bearing Tree
18	MagniferaIndica	Mango	12	Fruit bearing tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	116 KVA
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	1997 KW
	During Operation phase (Demand load):	1233 KVA
	Transformer:	(630 KVA X 2) + (315KVA X 1) NOS.
	DG set as Power back-up during operation phase:	320KVA X 1 NOS.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area. 92969 KWH
Energy saving using Low Loss Transformer Against Conventional Transformer 10512 KWH
Energy Saving using Solar Water Heater Against Electrical water Heater 162525KWH
Energy Saved by Solar PV 21600 KWH
Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control 77150 KWH
Energy Saved by Using VFD for Lift against convensional drive 160965 KWH
Total Energy Saving in Project by Energy saving measures 525720 KWH

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area.	33.87 %

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2	Energy saving using Low Loss Transformer Against Conventional Transformer	6.06%
3	Energy Saving using Solar Water Heater Against Electrical water Heater	75.34%
4	Energy Saved by Solar PV	1.52%
5	Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control	43.51%
6	Energy Saved by Using VFD for Lift against convensional drive	20.00%
7	Total Energy Saving in Project by Energy saving measures	20.86%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	71 Lac
	O & M cost:	2 Lac/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water For Dust Suppression ,Air & Noise Monitoring	3.20
2	Water Environment	Tanker Water For Construction and water Monitoring	4.90
3	Land Environment	Site Sanitation, mobile toilets	0.85
4	Socio-Economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Personal Protective Equipment	1.30
5	Environmental Monitoring Cell	-	2.80

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	Waste water treatment	70.15	12.18
2	Rain Water Harvesting	12 No of pits	14	0.75
3	Solid Waste Management	Biodegradable waste treatment	20.57	4.8
4	Landscape	Green Belt Development	9.1	0.62
5	Energy	Enegy saving measures	71	2

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6	Environmental Monitoring	Ambient Air quality, Noise level, Exhaust from DG Set, drinking water,sewage from STP as per EP act,	-	1.50

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Traffic generated from this project will confluent on existing 21m wide road
Parking details:	**Number and area of basement:**	0
	Number and area of podia:	0
	Total Parking area:	20,999.49 sq.m
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	716 nos
	Number of 4-Wheelers as approved by competent authority:	337 nos
	Public Transport:	Hole Wasti Bus Stop
	Width of all Internal roads (m):	12 m & 6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA

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	Category as per schedule of EIA Notification sheet	8 (a) B2
	Court cases pending if any	NO
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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PP submitted his application for prior Environmental clearance for total plot area of 20400 m2, FSI area of 28035.50 m2, Non FSI area of 30316.22 m2 and total BUA of 5835172 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP informed that neither stake holding of the project proponent of M/s Goel Ganga Developers India Pvt. Ltd. is involved in the proposal, nor PP is having any stake in the development project of M/s Goel Ganga Developers India Pvt. Ltd. In light Judgment dt. 10.08.2018 by Hon'ble Supreme Court in Civil Appeal No. 10854 of 2016, PP to submit affidavit to this effect.

2. PP to submit approved plan of 2 basements and lower ground and all levels.

3. Fire tender movement plan to be revised with uniform width of 6 m drive way by removing all projections etc. and streamlining all the curved portions with minimum radius of 9 m.

4. PP to submit parking statement showing total number of parking required and proposed as per DCR / Town Planning norms with adequate area per car as per norms.

5. PP to submit debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

6. PP to submit fire NOC.

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

Specific Conditions by SEAC:

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FINAL RECOMMENDATION

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

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92nd SEAC-3 day 01

SEAC Meeting number: 92 **Meeting Date** August 20, 2019

Subject: Environment Clearance for Application for Environmental Clearance of Proposed Residential and Commercial project at S.no. 23/2 at Dhanori, Tal. Haveli, Dist. Pune.

Is a Violation Case: No

1.Name of Project	Proposed Residential Project
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sunil G. Mittal
4.Name of Consultant	Mr. Rajesh Srivastava - Pollution and Ecology Control Services (PECS)
5.Type of project	Residential & Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Revision in Layout
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, SEAC-2013/CR-231/TC-2 dated 25-01-2016
8.Location of the project	Proposed Residential and Commercial project at S.no. 23/2 at Dhanori, Tal. Haveli, Dist. Pune.
9.Taluka	Haveli
10.Village	Dhanori
Correspondence Name:	Mr. Sunil G. Mittal
Room Number:	409
Floor:	Fourth floor
Building Name:	City Tower
Road/Street Name:	Boat Club Road
Locality:	Sangamwadi
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Pune Municipal Corporation
	IOD/IOA/Concession/Plan Approval Number: CC/3212/18 dated 16/01/2019
	Approved Built-up Area: 35690.65
13.Note on the initiated work (If applicable)	Building A & B & Building C in progress
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	16700 Sq.M.
16.Deductions	1742.54 Sq.M.
17.Net Plot area	14957.46 Sq.M.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 19557.27
	b) Non FSI area (sq. m.): 16133.38
	c) Total BUA area (sq. m.): 35690.65
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 19557.27
	Approved Non FSI area (sq. m.): 16133.38
	Date of Approval: 16-01-2019
19.Total ground coverage (m2)	1841.22
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	12%
21.Estimated cost of the project	41.71

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	P + 11	36
2	Building B	P + 11	36
3	Building C	P + 11	36
4	Building D	P + 11	36
5	Building E	B + G + 9	32.9
6	Club House	G + 1	6

23.Number of tenants and shops	Number of Tenements - 395 Number of Shops - 20
24.Number of expected residents / users	Resdential Users - 1975, Commercial Users - 111
25.Tenant density per hectare	395
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9 M. / 18 M.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 M.
29.Existing structure (s) if any	Wing A & B & Club House as per previous E.C.
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PMC
	Fresh water (CMD):	180
	Recycled water - Flushing (CMD):	91
	Recycled water - Gardening (CMD):	8
	Swimming pool make up (Cum):	7
	Total Water Requirement (CMD) :	286
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	80
	Excess treated water	135
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	180
	Recycled water - Flushing (CMD):	91
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	7
	Total Water Requirement (CMD) :	278
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	80
	Excess treated water	142
Details of Swimming pool (If any)	Swimming Pool Dimensions : 6 M. x 9 M. X 1.2 M. Baby Pool : 2.7 M. X 2.7 M. X 0.6 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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Summer Season – 28.75 m. to 40.00 m.BGL. Rainy Season – 6.00 m. to 8.50 BGL. Winter Season – 17.40 m. to 24.00 m. BGL
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	5 Nos
	Size of recharge pits :	2m. X 2m. X 2m.
	Budgetary allocation (Capital cost) :	23.50 Lakhs
	Budgetary allocation (O & M cost) :	1 Lakhs/Annum
	Details of UGT tanks if any :	Domestic - 270 Fire -- 200
35.Storm water drainage	**Natural water drainage pattern:**	East to West
	Quantity of storm water:	512036 LPD
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	260.47
	STP technology:	MBBR
	Capacity of STP (CMD):	1 - 260 Cmd
	Location & area of the STP:	Shown in Layout
	Budgetary allocation (Capital cost):	72 Lakhs
	Budgetary allocation (O & M cost):	12.12 Lakhs/Yr
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	5 Kg/Day
	Disposal of the construction waste debris:	Shall be handed over to Authorized agency
Waste generation in the operation Phase:	**Dry waste:**	406.10 Kg/Day
	Wet waste:	624.10 Kg/Day
	Hazardous waste:	NIL
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	26.05 Kg/Day
	Others if any:	E Waste- 1000 Kg/yr

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Mode of Disposal of waste:	**Dry waste:**	Handed over to Authorized Agency
	Wet waste:	In-situ Composting
	Hazardous waste:	If Generated, shall be handed over to authorized Agency
	Biomedical waste (If applicable):	NIL
	STP Sludge (Dry sludge):	In-situ Composting
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Shown on Plan
	Area for the storage of waste & other material:	50 Sq.M.
	Area for machinery:	Considered in Above Area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	30.50 Lakhs
	O & M cost:	3.61 Lakhs/Annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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43.Green Belt Development	**Total RG area :**	1495.75 Sq.M.
	No of trees to be cut :	NIL
	Number of trees to be planted :	308
	List of proposed native trees :	List Given Below
	Timeline for completion of plantation :	Before Completion of the project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Neolamarkia cadamba	Kadam	48	The tree is suitable for ornamental use
2	Plumeria alba	Chapha	47	Deciduous, Native, flowering
3	Thespesia populnea	Portia	46	fruits, flowers and young leaves are edible. used to treat skin diseases
4	Ficus benjamina	Fig	47	"Evergreen tree, non flowering, Native, can be pruned and given topiary effect "
5	Pongamia pinnata	Karanj	44	Evergreen, Native, flowering
6	Milligtonia hortensis	Indian cork tree	43	"Controls food poisoning., Reduces fever. Lung tonic and good bronchodilator, Asthma. "
7	Manilkara zapota	Chiku	33	Fruit bearing tree
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	65 KW
	DG set as Power back-up during construction phase	1 No. of 82.5 Kva
	During Operation phase (Connected load):	1946.73 KW
	During Operation phase (Demand load):	944.32 KW
	Transformer:	1 No. of 630 Kva & 1 No. of 315 Kva
	DG set as Power back-up during operation phase:	1 No. of 250 Kva
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No HT line in plot

48.Energy saving by non-conventional method:

Energy Saving Measures Proposed
1. Using LED fixture in Parking area, lift-lobby and stair-case .
2. Using LED in Place of Metal Halide in External Lights.
3. Using On Grid Solar generation for each building.
4. Using Solar Hot Water System for each building.
5. Using LED Fixture in all the internal Toilet area .

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	PV Solar + LED Light Fixture + Timer For Light Control + Solar Hot Water + VFD lift + Energy Efficient Motor + Low Loss Transformer + DG (CPCB II)	14.23%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25.12 Lakhs
	O & M cost:	0.43 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	Water for Construction & labour	Water Requirement	2.92
2	Site Sanitation & Safety	Health & Safety	1

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3	Environmental Monitoring	Pollution	1.2
4	Disinfection	Health & Safety	0.5
5	Health Check-Up	Health & Safety	0.5

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 Pits	23.5	1
2	Sewage Treatment Plant	Waste Water Management	72	12.12
3	Organic Waste Composting	Solid Waste Management	30.50	3.61
4	Tree Plantation	Landscape Development	22.68	0.51
5	Energy Saving	Energy Conservation	25.12	0.43
6	Environmental Monitoring	Pollution Control	0	1.2

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:	1 . NO

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Parking details:	**Number and area of basement:**	592.17 Sq.M.
	Number and area of podia:	Nil
	Total Parking area:	5565.80 Sq.M.
	Area per car:	12.50 SQM
	Area per car:	12.50 SQM
	Number of 2-Wheelers as approved by competent authority:	852
	Number of 4-Wheelers as approved by competent authority:	218
	Public Transport:	NIL
	Width of all Internal roads (m):	MIN 6 M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8 (A)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 16700 m2, FSI area of 19557.27 m2, Non FSI area of 16133.38 m2 and total BUA of 35690.65 m2.

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

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DECISION OF SEAC

During discussion following points emerged:

1. PP to obtain fire NOC for “D” building.

SEAC decided to ***recommend*** *the proposal for prior environmental Clearance, subject to PP complying with the above conditions.*

Specific Conditions by SEAC:

1) PP to obtain fire NOC for “D” building.

FINAL RECOMMENDATION

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

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92nd SEAC-3 Day 02

SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for 'HM Royal, Proposed Residential and Commercial project at S. No 18, H.No. 2/2+3+4A to 4E , Kondhwa – Bdk, Pune by Arti Properties Pvt. Ltd

Is a Violation Case: Yes

1.Name of Project	'HM Royal, Proposed Residential and Commercial project at Kondhwa – Bdk, Pune by Arti Properties Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajkumar Sarda
4.Name of Consultant	VK:e environmental LLP
5.Type of project	Residential and Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No 18, H.No. 2/2+3+4A to 4E, Kondhwa – Bdk, Pune
9.Taluka	Haveli
10.Village	Kondhwa
Correspondence Name:	Arti Properties Pvt. Ltd. C/62, VIBGYOR Towers, 9th Floor, Bandra Kurla Complex, Bandra East, Mumbai
Room Number:	C/62
Floor:	9th Floor
Building Name:	VIBGYOR Towers, Bandra Kurla Complex
Road/Street Name:	Bandra East,
Locality:	Bandra East,
City:	Mumbai
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	Under proces
	IOD/IOA/Concession/Plan Approval Number: Under process
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	Approx. 86,000 sqm is constructed on site
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	48,479.17 m2
16.Deductions	19,167.47 m2
17.Net Plot area	29,311.70 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 64,670.74
	b) Non FSI area (sq. m.): 41054.30
	c) Total BUA area (sq. m.): 105725
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 00
	Approved Non FSI area (sq. m.): 00
	Date of Approval: 24-05-2019
19.Total ground coverage (m2)	5625.57
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.1
21.Estimated cost of the project	1740000000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1A	Basement+P+9	30.0
2	1B	Basement+P+9	30.0
3	1C	Basement+P+9	30.0
4	1D	Basement+P+9	30.0
5	2A	Basement+G+11	36.0
6	2B	Basement+G+11	36.0
7	2C	Basement+G+11	36.0
8	2D	Basement+G+11	36.0
9	3A	2 Basements+P+11	36.0
10	3B	2 Basements+P+12	39.0
11	3C	2 Basements+P+12	39.0
12	3D	1 Basements+P+12	39.0
13	4 (commercial)	Basement +G+10	35.47
14	5A	2 Basements+G+10	35.50
15	5B	2 Basements+G+10	35.50
16	5C	2 Basements+G+10	35.50

23.Number of tenants and shops	No. of tenements : 807 No. of shops & offices: 45 shops & 18 offices
24.Number of expected residents / users	Residential Tenants: 4035 Commercial Tenants: 279
25.Tenant density per hectare	144 Tenements/hectare 720 Tenants/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)	Width of the road is 40 m wide. Nearest fire station: Kondhwa budruk fire station Nearest Fire Station Distance : Approximately 50 mt
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	Residential Buildings, commercial building exists on site. Approx. 86,000 sqm is constructed on site.
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

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32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	372
	Recycled water - Flushing (CMD):	186
	Recycled water - Gardening (CMD):	24
	Swimming pool make up (Cum):	4
	Total Water Requirement (CMD) :	586
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	226
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	372
	Recycled water - Flushing (CMD):	186
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	4
	Total Water Requirement (CMD) :	562
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	250
Details of Swimming pool (If any)	pH-7.0 to 7.6 b)Chlorine Content -0.8 to 1.0 ppm Residual Chlorine in pool c) Disinfection Treatment - With Ozone	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post monsoon water level 4.10 m bgl , Pre monsoon water level 10.10 m bgl
	Size and no of RWH tank(s) and Quantity:	Not applicable
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	14
	Size of recharge pits :	Size of recharge pit: 1.5m x1.5m x 2 m,
	Budgetary allocation (Capital cost) :	6,50,000/-
	Budgetary allocation (O & M cost) :	70,000/-
	Details of UGT tanks if any :	UGT for cluster 1 & 4 Fire Fighting Tank 200 Raw Water Tank 44.5 Domestic Tank 133.6 UGT for cluster 2 Fire Fighting Tank 200 Raw Water Tank 61.2 Domestic Tank 183.6 UGT for cluster 3 Fire Fighting Tank 200 Raw Water Tank 59.6 Domestic Tank 178.8 UGT for cluster 5 Fire Fighting Tank 200 Raw Water Tank 20.3 Domestic Tank 61.1
35.Storm water drainage	**Natural water drainage pattern:**	Natural water drainage pattern: The storm water drainage will be designed according to contours. The storm water collected through the storm water drains of adequate capacity will be led to recharge pits.
	Quantity of storm water:	37.71 m^3
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	485
	STP technology:	MBBR
	Capacity of STP (CMD):	3 nos of total 525 m3/day
	Location & area of the STP:	On ground
	Budgetary allocation (Capital cost):	59,00,000/-
	Budgetary allocation (O & M cost):	15,50,000/-

36.Solid waste Management

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Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Dry waste (Kg/day): 4 kg/day , Wet waste (Kg/day): 06 kg/day , Total waste generated:10kg/day
	Disposal of the construction waste debris:	The Construction waste generated during construction shall be segregated, reused on site and surplus shall be led to scrap dealers for recycling.
Waste generation in the operation Phase:	**Dry waste:**	848.5 kg/day
	Wet waste:	1238.4 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	72 kg/day
	Others if any:	E-waste 6.3 Kg/day
Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWaCH.
	Wet waste:	will be treated in Organic Waste Converter (OWC).
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge from STP will be used as manure.
	Others if any:	E-waste: Will be handed over to authorized recyclers
Area requirement:	**Location(s):**	On ground
	Area for the storage of waste & other material:	total : 75 sqm
	Area for machinery:	total : 75 sqm
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	19,90,000/-
	O & M cost:	5,88,000/-

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	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 :**	4076.82 sqm
	No of trees to be cut :	00
	Number of trees to be planted :	221.0
	List of proposed native trees :	Refer below list
	Timeline for completion of plantation :	Operation 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	Millingtonia hortensis	Akash nimb,buch,cork tree	13	The tree is considered ornamental and the pleasant fragrance of the flowers renders it ideal as a garden tree.
2	Anthocephalus Kadamba	Kadamb	2	Ornamental tree ,scented flowers, good shade
3	Azadirichta indica	kadunimb	9	Good shade, medicinal, used for pest control
4	Lagerstromia speciosa	taman	8	attractive flowering
5	Pterospermum acerifolium	muchkund	3	Ornamental tree, shade giving
6	Swietenia macrophylla	mahogony	4	good shade, road side planting
7	Mimusops elengii	bakul	6	fragrant flowers, good shade
8	Michelia champaka	sonchafa	24	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
9	Averrhoa carambola	kamrakh	14	edible sweet fruits , shade tree
10	Bauhinea blackeana	Kanchan	11	Ornamental tree, scented flowers
11	Peltoforum	Pil mohor	11	copper pods visual treat ,nice sound of rustling pods ,yellow flowers
12	Spathodea campanulata	pichkari	15	huge shade giving tree, bright orange red flowers (april to june)with a water pichkari
13	Terminalia katappa	badam	4	fruit tree, ornamental

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14	Cassia grandis	pink shower tree	12	pink flowers
15	Plumeria alba	pandhra chafa	14	Medium sized evergreen tree, white flowers, Butterfly host plant
16	Cassia fistula	bahava	15	Ornamental , grapes like flowering, Good for roadside Plantation & provide shade
17	Tabebuia argentia	trumpet tree	24	It is a popular ornamental tree in subtropical and tropical regions,grown for its spectacular flower display on leafless shoots at the end of the dry season.
18	Erythrina varigata	Pangara	4	bright orange flowers from april to june
19	Terminalia mantaly	almond	12	ornamental tree
20	Ficus benjamina	weeping fig	16	evergreen tree, moderate water requirement
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)	179 KW
	DG set as Power back-up during construction phase	200 kvA
	During Operation phase (Connected load):	4920.4 KW
	During Operation phase (Demand load):	2503.5 kvA
	Transformer:	630KVA X 5NO
	DG set as Power back-up during operation phase:	160 KVA & 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Using T5+ LED fixtures with electronic ballast
- Using automatic timer operation against manual operation for external lighting
- Using high efficient transformer against conventional transformer
- T5 led, T8 tube for parking
- LED T8 for common area
- Using Solar hot water 125 lit/flat
- Using Solar PV's in common area

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49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Using T5+ LED fixtures with electronic ballast • Using automatic timer operation against manual operation for external lighting • Using high efficient transformer against conventional transformer • T5 led, T8 tube for parking • LED T8 for common area • Using Solar hot water 125 lit/flat • Using Solar PV's in common area	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:**	Solar Hot Water System :Rs. 6,50,000/-, Solar PV :Rs. 16,02,400/-
	O & M cost:	Solar Hot Water System :Rs. 6,500/-, Solar PV :Rs. 1,61,000/-

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	Erosion control – dust suppression measures, barricading and top soil preservation	61,82,415/-
2	Land	Labour Camp toilets & sanitation	2,00,000/-
3	Health & Safety	Labour Safety Equipments and training	2,00,000/-
4	Environment	Environmental Monitoring	1,85,600/-
5	Health & Safety	Disinfection and Health Check-ups	30,000/-
6	Environment	Environmental Monitoring cell	1,70,000/-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage treatment plant	STPs	59,00,000/-	15,50,000/-
2	Solid waste management	OWC	19,90,000/-	5,88,000/-
3	Landscaping	Landscaping	10,19,205/-	81536/-
4	Rain water harvesting	Rain water harvesting	20,00,00/-	20,000/-
5	Environmental Monitoring	Environmental Monitoring	-	1,82,500-/
6	Solar Hot Water System	Solar Hot Water System	6,50,000/-	6,500/-
7	Solar PV	Solar PV	16,02,400/-	1,61,000/-

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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:	Proposed site is located at Kondhwa. The road network within the site has been designed to cater to the traffic loads of the project. Internal driveways are 6 m wide. Existing access road is 40 m and 18 m wide.
Parking details:	**Number and area of basement:**	2
	Number and area of podia:	NA
	Total Parking area:	15160 sqm
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1959
	Number of 4-Wheelers as approved by competent authority:	821
	Public Transport:	NA
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8a Building and Construction Proejcts
	Court cases pending if any	NA
	Other Relevant Informations	Approx. 86,000 sqm is constructed on site as sanctions received

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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PP submitted his application for prior Environmental clearance for total plot area of 48479.17 m2, FSI area of 64670.74 m2, Non FSI area of 41054.30 m2 and total BUA of 105725 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to obtain fire NOC.

2. The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 2.74 Cr. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 2.61 Cr which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 2.74 Cr for the project completion period.

*SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the above conditions.*

Specific Conditions by SEAC:

1) PP to obtain fire NOC.
2) The committee noted that Cost of remediation plan and natural & community resource augmentation plan as per revised approach paper is estimated as Rs. 2.74 Cr. The Committee also noted that the amount of CER as per MoEF & CC circular dated 1/05/2018 is Rs. 2.61 Cr which is less than the remediation / augmentation plan. Therefore committee decided to obtain Bank Guarantee of Rs 2.74 Cr for the project completion period.

FINAL RECOMMENDATION

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

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SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for Proposed Residential and Commercial Project at Sr. no 78, Near celestial city, Ravet-Aundh BRT Road, village - Ravet, Taluka - Haveli, Pune.

Is a Violation Case: No

1.Name of Project	Proposed Residential and Commercial Project at Sr. no 78, Near celestial city, Ravet-Aundh BRT Road, village - Ravet, Taluka - Haveli, Pune.
2.Type of institution	Private
3.Name of Project Proponent	M/s BVG Developers
4.Name of Consultant	M/s. Ultra-Tech (Environmental Consultancy & Laboratory)
5.Type of project	Residential and Commercial Development
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	New Project
8.Location of the project	Sr. no 78, Near celestial city, Ravet-Aundh BRT Road, village - Ravet, Taluka - Haveli, Pune.
9.Taluka	Haveli
10.Village	Ravet
Correspondence Name:	Mr. B.V. Gaikwad
Room Number:	Shop No-D/14/B-5
Floor:	-
Building Name:	B-Wing
Road/Street Name:	Sant Tukaram vyapar Sankul,
Locality:	Nigdi
City:	Pune-411044
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	B.P./EC/Ravet/02/18 Dated 16/02/18
	IOD/IOA/Concession/Plan Approval Number: BP/EC/Ravet/02/18 Dated 16/02/18
	Approved Built-up Area: 40471.72
13.Note on the initiated work (If applicable)	No work initiated on site
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	B.P./EC/Ravet/02/18 dated on 16.02.2018
15.Total Plot Area (sq. m.)	20,800.00 sq.m.
16.Deductions	2295.95 sq.m.
17.Net Plot area	16652.36 sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 40471.72
	b) Non FSI area (sq. m.): 30335.78 sq.m.
	c) Total BUA area (sq. m.): 70807.50
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 40471.72 sq.m.
	Approved Non FSI area (sq. m.): 30335.78 sq.m.
	Date of Approval: 16-02-2018
19.Total ground coverage (m2)	3027.20 sq.m.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	14%
21.Estimated cost of the project	1523186496

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A Building	2 P+20	63.70
2	B Building	2 P+20	63.70
3	C Building	2 P+20	63.70
4	D Building	2 P+20	63.70
5	Commercial (Shop: 7 and Office :35)	2 BP+G+5	20.20
6	MHADA	P+9	30.20

23.Number of tenants and shops	685 tenements, 7 shops & 35 offices
24.Number of expected residents / users	Residential : 3080 Nos. , Commercial: 1030 Nos. , MHADA : 345 Nos.
25.Tenant density per hectare	349.51 tenants/ ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest Fire Station: Pradhikaran Fire station 3.28 Km away from project site
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius for easy access of fire tender movement from all around the building is 9.00 m.
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	329
	Recycled water - Flushing (CMD):	180
	Recycled water - Gardening (CMD):	10
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	519
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	20 Each
	Excess treated water	268
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	329
	Recycled water - Flushing (CMD):	180
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	509
	Fire fighting - Underground water tank(CMD):	500
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	278
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	509	509	Not applicable	51	51	Not applicable	458	458
Gardening	Not applicable	10	10	Not applicable	10	10	Not applicable	0	0

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Below 17.84 M
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	10
	Size of recharge pits :	2.50 m. X 2.50 m. X 1.75 m. Depth with 60 m. Deep 6” Dia. Bore Well via 2 No. of de-siltation pits of 0.9 m. Dia. 1.0 m. Deep. Harvesting Capacity: 6,635.00 m3/Year i.e. 132.70 m3/ Day.
	Budgetary allocation (Capital cost) :	12.50 Lakh.
	Budgetary allocation (O & M cost) :	Rs. 0.50 Lakh / year.
	Details of UGT tanks if any :	Residential: Domestic UG tank Capacity: 465 KLD Flushing UG tank Capacity: - 160 KLD Fire UG tank Capacity: 375 KLD Commercial: Domestic UG tank Capacity: 30 KLD Flushing UG tank Capacity: 40 KLD Fire UG tank Capacity: 50 KLD
35.Storm water drainage	**Natural water drainage pattern:**	South to North
	Quantity of storm water:	10,078.33 m3 per year i.e. 201.57 m3 per day Considering 722.00 mm. annual rain fall in 50 days averagely.
	Size of SWD:	600 mm internal
Sewage and Waste water	**Sewage generation in KLD:**	Residential: 416 KLD and Commercial: 42 KLD
	STP technology:	Residential: 420 KLD and Commercial: 45 KLD
	Capacity of STP (CMD):	MBBR
	Location & area of the STP:	Near Mhada building and commercial building (Ground Level)
	Budgetary allocation (Capital cost):	Rs. 48.50 Lakhs
	Budgetary allocation (O & M cost):	Rs. 19.80 Lakhs/Annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavation Debris details 4578.82 cum approx.
	Disposal of the construction waste debris:	Construction waste debris will be reused at the same site. Excess will be used for filling purpose of our own development sites as much as possible. Rest will be disposed off to authorized sites. Quantity of 2289.41 cum top soil to be preserved which is being utilized for landscaping.
Waste generation in the operation Phase:	**Dry waste:**	840 kg/day
	Wet waste:	1131 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	87 kg/day
	Others if any:	E waste - 7.5 Kg/day

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Mode of Disposal of waste:	**Dry waste:**	Dry garbage will be disposed off through authorized contractors.
	Wet waste:	Wet garbage shall be treated in organic waste converter (OWC) on site and manure so obtained will be used in landscaping.
	Hazardous waste:	Waste oil from D.G. sets will be handed over to authorized vendor.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Dried sludge from STP to be mixed with wet waste and processed in OWC, this will be used as manure for gardening.
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	14 sq.m. + 6 sq.m.= 20 sq.m
	Area for machinery:	58 sq.m. + 22 sq.m.= 80 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 39.50 Lakhs
	O & M cost:	Rs. 8.65 Lakhs /annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	2 DG Sets 125 KVA	20.2 ltr/hr @75% loading	2	4.22 m	3 m	450 degree Celsius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	20.2 Litres /hr	Not applicable

41.Source of Fuel	Authorized Vendor
42.Mode of Transportation of fuel to site	By road

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43.Green Belt Development	**Total RG area :**	1851.69 sq.m.
	No of trees to be cut :	3
	Number of trees to be planted :	201
	List of proposed native trees :	12 species
	Timeline for completion of plantation :	1 year

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Mimusop Ellengii	Bakul	14	Indigenous species, Medium sized, Yellow flowering, attract birds.
2	Cassia Glauca	Cassia	15	Yellow Flowering seasonal, require less water.
3	Acrus Sapota	Chikoo	24	Seasonal fruit plant, dense foliage, Shady.
4	Michelli Champaka	Sonchafa	15	Medium sized, Yellow flowering, Fragrant, Flowers used for worshipment.
5	Royale Palm	Bottle Palm	14	Tall growing, Avenue plant
6	Magnifera Indica	Mango	24	Fruit plant, Popular fruit, King of fruits, Seasonal, Shady.
7	Bauhinea Blackenea	Kanchan	10	Indigenous specie. Dark purple flowering,
8	Cordia Sabistana	Cordia	10	Orange Flowering, evergreen foliage, Shady
9	Millintonia Hortensis	Booch	12	Indigenous Specie, White flowering, Fragrant, Bird attracting, Shady
10	Plumeria Alba	Chafa	17	White flowers, Fragrant, commonly planted.
11	Azadirachta Indica	Neem	20	Medicinal Plant, Generates Oxygen. Evergreen, Shady.
12	Ficus Benjamina	Ficus	26	Very shining foliage, dense, Shady.
13	Total Trees	-	201	-
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	75 KW
	DG set as Power back-up during construction phase	1 NO X 125 KVA
	During Operation phase (Connected load):	3606 KW
	During Operation phase (Demand load):	1937 KW
	Transformer:	3 Nos X 630 KVA+ 1 No X 315 KVA
	DG set as Power back-up during operation phase:	2 Nos X 125 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

1. Solar PV Panel Energy
2. Timer Logic Controller
3. Electronic V3F Drives for lifts
4. Solar Water Heaters

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panel Energy (25650 KWH/Annum)	0.33 %
2	Timer Logic Controller (93601 KWH/Annum)	1.22 %
3	Electronic V3F Drives for lifts (39754 KWH/Annum)	0.52 %
4	Solar Water Heaters (1191900 KWH/Annum)	15.54 %
5	Total (1350905 KWH / Anum)	17.61 %.

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Water pollution due to domestic sewage	Not applicable	STP
Solid waste	Not applicable	OWC
Air pollution and Noise pollution due to DG set	Not applicable	Stack of required height and acoustic enclosure for noise control

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Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	141.18 Lakhs
	O & M cost:	4.5 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air & Noise Environment	Water For Dust Suppression and Air & Noise monitoring	2.5
2	Water Environment	Tanker water for construction & worker and Water monitoring	2.02
3	Land Environment	Mobile Toilets & maintenance	1.86
4	Biological Environment	Gardening & Excavation, transplantation	3.94
5	socio economic Environment	Disinfection at site, Safety, First Aid, Health Hygiene Facilities, Health Check Up, Creches for children, Personal Protective Equipment and Drinking water	9.55
6	Total	-	19.97

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage water treatment	Waste water Treatment	48.50	19.80
2	Rain Water Harvesting	Recharge pits 10 Nos.	12.0	0.50
3	Environmental Monitoring	For Air, Water, soil and Noise analysis from MoEF accredited lab	20.0	15.49
4	Gardening	Plantation of 201 trees	16	4.8
5	Solid waste Management	2 No. of OWC	39.50	8.65
6	Energy saving Measures	Solar Street Lightning Power Pack System & solar PV	141.18	4.5
7	Total	-	277.18	53.74

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Separate entry and exit roads with minimum 18 m abutting road and Drive way designed for the project is 6.00 mt wide.
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	11964.30 Sqm
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1586
	Number of 4-Wheelers as approved by competent authority:	415
	Public Transport:	NA
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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PP submitted his application for prior Environmental clearance for total plot area of 20,800 m2, FSI area of 40471.72 m2, Non FSI area of 30335.78 m2 and total BUA of 70807.50 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 89th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for Project by Omega Promoters Pvt.Ltd. Through M/s Garve Buildcon

Is a Violation Case: No

1.Name of Project	Omega Paradise
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sachin Sonigara
4.Name of Consultant	M/s JV Analytical Services
5.Type of project	Residential & Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes
8.Location of the project	S.No.174(Part) , 175(Part) ,127/3 &128/5, Wakad – DangeChowk Road, Opp. Shree Nursery,
9.Taluka	Mulshi
10.Village	Wakad
Correspondence Name:	Mr.Sachin Sonigara
Room Number:	Sonigara Park
Floor:	-
Building Name:	-
Road/Street Name:	Laxmi Tara Market, Tathawade Road
Locality:	Dange Chowk,Thergaon
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation (PCMC)
12.IOD/IOA/Concession/Plan Approval Number	In Process
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 79310.47
13.Note on the initiated work (If applicable)	71980.17 m2 (FSI - 44567.32 m2+ Non-FSI - 27412.85 m2) as per previous EC vide no.21-222/2008-1A-III Dated - 12/08/2009
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	59332.92 m2
16.Deductions	31114.66 m2
17.Net Plot area	28218.26 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 66041.70
	b) Non FSI area (sq. m.): 54823.27
	c) Total BUA area (sq. m.): 120864.97
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 46122.29m2(Part Sanction)
	Approved Non FSI area (sq. m.): 33188.18 m2(Part Sanction)
	Date of Approval: 13-07-2017
19.Total ground coverage (m2)	9159.45
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	15.43% of total plot area (59332.92 m2) , 32.45% of net plot area (28218.26 m2)
21.Estimated cost of the project	1608100000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing - A	P + 7	19.95
2	Wing - B	P + 7	19.95
3	Wing - C	P + 7	19.95
4	Wing - D	P + 7	19.95
5	Wing - E	B+ P+12	34.20
6	Wing - F	B+ P+12	34.20
7	Wing - G	B+ P+12	34.20
8	Wing - H	B+ P+12	34.20
9	Wing - I	P + 12	34.20
10	J1, J2, J3	G + 1	6.75
11	K1, K2, K3	G + 1	6.75
12	Wing - L	B+P+11	31.90
13	Wing - M	B+P+12	34.80
14	Wing - N	3B+G+21	60.90
15	Wing - O	BP+LP+G+5	17.40

23.Number of tenants and shops	Total Tenements - 746Nos.(Existing:363 nos.+ Proposed:383 Nos.) Proposed : Shops – 47 Nos. Showrooms – 9 Nos. Offices – 67 Nos.
24.Number of expected residents / users	Existing : Residential Users – 1815Nos. , Proposed : Residential Users – 1915Nos. Commercial users - 1118 Nos. Total Users: 4848 Nos.
25.Tenant density per hectare	126/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)	24 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

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32.Total Water Requirement

Dry season:	**Source of water**	Pimpri-Chinchwad Municipal Corporation
	Fresh water (CMD):	591.86 m3/day(One time)
	Recycled water - Flushing (CMD):	195.80 m3/day
	Recycled water - Gardening (CMD):	35.00 m3/day
	Swimming pool make up (Cum):	3.00 m3/day
	Total Water Requirement (CMD) :	361.06 m3/day
	Fire fighting - Underground water tank(CMD):	675.00 m3
	Fire fighting - Overhead water tank(CMD):	200 m3
	Excess treated water	267.67 m3/day
Wet season:	**Source of water**	Pimpri-Chinchwad Municipal Corporation
	Fresh water (CMD):	556.86 m3/day (One time)
	Recycled water - Flushing (CMD):	195.80m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	3.00 m3/day
	Total Water Requirement (CMD) :	361.06m3/day
	Fire fighting - Underground water tank(CMD):	675.00 m3
	Fire fighting - Overhead water tank(CMD):	200 m3
	Excess treated water	302.67m3/day

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Details of Swimming pool (If any)	Dimension of Swimming Pool : a. Swimming Pool 1: 12.19 M x 6.10 M x 1.4 M b. Swimming Pool 2: 12.19 M x 6.10 M x 1.4 M c. Swimming Pool 3: 12.19 M x 5.12M x 1.2M Total water Requirement in KLD : a. Swimming Pool 1: 104.11m3 b. Swimming Pool 2: 104.11 m3 c. Swimming Pool 3: 8.73m3 Water requirement in KLD: a. Swimming Pool 1: 1.04 m3/day b. Swimming Pool 2: 1.04 m3/day c. Swimming Pool 3: 0.9 m3/day Details of Plant & Machinery used for treatment of Swimming pool water : Details of quality to be achieved for swimming pool water and parameters to be monitored : Budgetary allocation (Capital cost and O & M cost) : Swimming Pool 1: Capital Cost: Rs. 24.57 Lakh O & M Cost: Rs. 2.22 Lakh/Year Swimming Pool 2: Capital Cost : Rs. 24.57 Lakh O & M Cost: Rs. 2.22 Lakh/Year Swimming Pool 3: Capital Cost : Rs. 22.86 Lakh O & M Cost: Rs. 2.22 Lakh/Year

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:**	Summer Season – 16.25 m to 20.25 m BGL (Ave.18.25 m BGL) , Rainy Season – 6.00 m to 10.00 m BGL (Ave.8.00 m BGL) , Winter Season – 11.13 m to 15.13 m BGL(Ave.13.13 m BGL)
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	11 Nos.
	Size of recharge pits :	2.00 m x 2.00 m x 2.00 m
	Budgetary allocation (Capital cost) :	Rs. 11.00 Lakh
	Budgetary allocation (O & M cost) :	Rs. 1.00 Lakh/year
	Details of UGT tanks if any :	Residential & Commercial:(Existing + Proposed) Domestic UG tank Capacity: 300.89 m3(Proposed) Flushing UG tank Capacity :192.21 m3(Proposed) Fire UG tank Capacity : 675 m3(Existing + Proposed)

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35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	356.87 m3/day i.e.17843.48 m3/year
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	220.51 m3/day (Existing) , 277.93 m3/day (Proposed)
	STP technology:	MMBR
	Capacity of STP (CMD):	STP1(Existing) - 120.00 m3/day ,STP2(Existing) - 130.00 m3/day ,STP3 (Proposed) - 60.00 m3/day ,STP4 (Proposed) - 75.00 m3/day ,STP5 (Proposed) - 140.00 m3/day ,STP6 (Proposed) - 20.00 m3/day
	Location & area of the STP:	445 m2
	Budgetary allocation (Capital cost):	STP120 - 130KLD(Existing): Rs. 60.00 Lakh , STP60KLD(Proposed) : Rs. 21.24 Lakh , STP75KLD(Proposed) : Rs. 23.90 Lakh, STP140KLD(Proposed) : Rs. 33.37 Lakh, STP20KLD(Proposed) : Rs.11.90 Lakh
	Budgetary allocation (O & M cost):	STP120 - 130KLD (Existing): Rs. 12.00 Lakh/year , STP60KLD (Proposed) : Rs. 8.44 Lakh/year , STP75KLD (Proposed): Rs. 8.47 Lakh/year , STP140KLD (Proposed): Rs. 11.00 Lakh/year , STP20KLD (Proposed): Rs.6.48 Lakh /year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Use for Leveling.
Waste generation in the operation Phase:	**Dry waste:**	914 kg/day (Existing:363 kg/day + Proposed:551 kg/day)
	Wet waste:	1230.50 kg/day (Existing: 544.50 kg/day + Proposed: 686 kg/day)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	44.85kg/day (Existing + Proposed)
	Others if any:	-
Mode of Disposal of waste:	**Dry waste:**	Handed Over to SWaCH
	Wet waste:	Organic waste convertor
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as Manure after treatment in OWC.
	Others if any:	-
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	208.00 m2 (Existing: 72 m2 + Proposed: 136 m2)
	Area for machinery:	Included in other material area

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Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	OWC1 (Existing)- Rs. 10.62 Lakh , OWC 2(Existing): 10.62 Lakh, OWC 3 (Proposed)- - Rs. 11.50 Lakh , OWC4 (Proposed)- Rs. 11.50 Lakh, OWC5 (Proposed)- Rs. 13.50 Lakh , OWC6(Proposed) - Rs. 10.00 Lakh
	O & M cost:	OWC1 (Existing)-- Rs. 2.75 Lakh/year ,OWC 2 (Existing): Rs 2.71 Lakh/year ,OWC3 (Proposed)- Rs. 2.29 Lakh/year , OWC4 (Proposed)- Rs. 2.24 Lakh/year, OWC5 (Proposed)- Rs. 2.65 Lakh/year , OWC6 (Proposed)- Rs. 2.23 Lakh/year

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Set - 63.5KVA	HSD- 13.7 lit/hr	S - 1	4.70	As per norms	-
2	DG Set - 100 KVA	HSD- 22 lit/hr	S - 2	5.22	As per norms	-
3	DG Set - 250 KVA	HSD- 53.6 lit/hr	S - 3	6.50	As per norms	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	89.3 lit/hr	89.3 lit/hr

41.Source of Fuel	Bharat Petroleum Corporation Limited or Hindustan Petroleum
42.Mode of Transportation of fuel to site	By Roadway

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43.Green Belt Development	**Total RG area :**	3610.89 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	744 Nos.
	List of proposed native trees :	-
	Timeline for completion of plantation :	Before Completion of Buildings

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	Albizzia lebbek	Shirish	17	Native,deciduous, fragrant flowers
2	Areca nut	Bettle nut	15	Native,for shade, medicinal value
3	Azadirachtaindica	Neem	16	Native,semi deciduous for shade, medicinal value,for air purification
4	Bauheniapurpurea	Kanchan	48	Native,evergreen , pink flowers
5	Callestemon /Beafortia	Bottle Brush	76	For beautification ,showy flowers ,as a seasonal feature
6	Casuarina equisetifolia	Suru	05	Native,for shade, Attracts birds & insects
7	Cocos nucifera	Coconut	13	Native , fruit bearing ,attracts birds
8	Codeqeumviriegatum	Petra Palm	32	Native ,interesting foliage & flowering, for beautification
9	Delonix Regia	Gulmohar	11	For beautification ,showy flowers ,as a seasonal feature
10	Ficus	Ficus	29	Native ,evergreen ,beautiful foliage, fragnant flowers
11	Mangiferaindica	Mango	14	Native , evergreen ,gives shade, fruits, attracts birds & insects, cultural significance
12	Manilkarazapota	Chickoo	37	Evergreen ,for fruits, medicinal value
13	Phyllanthus emblica	Amla	22	Native, deciduous, for fruits, medicinal value
14	Plumeria alba	Chafa	42	Native ,evergreen ,beautiful foliage, fragnant flowers
15	Prunus amygdalus	Badam	11	Evergreen, fruit bearing
16	Saracaindica	Sita ,Ashok	78	Native, deciduous, beautiful flowers, medicinal value
17	Spathodia	Spathodia	17	For beautification, showy flowers, as a seasonal feature
18	Syzygiumcumini	Jamun	14	Native, evergreen for fruit
19	Topobea	Topobea	78	Native,deciduous,beautiful flowers,medicinal value
20	Tabebuia rosea	Pink Tabebuia	21	Deciduous, for beautification, showy pink flowers
21	Caryotaurens	Fishtail Palm	27	Native ,interesting foliage &flowering,for beautification

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22	Ficusracemosa	Umbhar	03	Native , attracts birds & insects , medicinal value
23	Ficusreligiosa	Pimple	03	Native ,evergreen ,beautiful foliage,fragnant flowers,for shade
24	Ficusbenghalensis	Banyan	03	Native,evergreen,very good shade giving tree ,attracts birds & insects,medicinal value,cultural value
25	Filliciumdecipiens	Fern Leaf Tree	66	Native,evergreen ,beautiful foliage
26	Artocarpusincissi	Jackfruit	08	Native,evergreen ,fruit bearing
27	Gardenia jasminoides	Anant	34	Native,evergreen , fragrant flowers
28	PunicaGranatum	Pomegranate	04	Native,grown for fruits ,medicinal 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 :**	MSEDCL. (Maharashtra State Of Electricity Distribution Company Ltd.)
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	01 No. - 40 KVA
	During Operation phase (Connected load):	2147 KW (Existing) , 2632 KVA (Proposed)
	During Operation phase (Demand load):	2104 KVA.
	Transformer:	02Nos. X 630 KVA
	DG set as Power back-up during operation phase:	03 Nos. x 63.5 KVA (Existing) , 01No. x 250 KVA & 01No.x100 KVA (Proposed)
	Fuel used:	HSD - 13.7 lit/hr (Existing DG Set: 63.5 KVA) ,HSD - 53.6 lit/hr (Proposed DG Set: 250 KVA) , HSD - 22 lit/hr (Proposed DG Set:100 KVA)
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

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• Solar Water Heating Systems Will be Done for Bathrooms.
• Solar Lights will be provided for common amenities like street lightings & Garden lightings
• CFL & LED based lighting will be done in the common areas, landscape areas, signage's, Entry Gates and boundary compound walls etc.
• Auto timer switches will be provided for street lights, Garden lights, Parking & staircase lights & other Common area Lights for saving electrical energy.
• Water Level Controllers with timers will be used for water pumps
• To create awareness to end consumer or flat owner, for using energy efficient light fittingslike CFL, T5 Lamps & LED Lights.
• Annual Savings with energy efficient equipment's is 2 to 4 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	1) LED Lamp & Fitting For Common Areas i.e. Bldg. Parking, Staircase, Passage & Terrace Floor.	15682.6 KWH/Annum
2	2.1) Bollard Lighter - Light Fitting For Landscape Area.	143.08 KWH/Annum
3	2.2) Recesses Wall Light. - Light Fitting For Landscape Area.	275.94 KWH/Annum
4	2.3) Planter Of Lighter - Light Fitting For Landscape Area	289.08 KWH/Annum
5	3.1) Solar Street Light Fitting - Pole Light On Road Side	1095.00 KWH/Annum
6	3.2) Street Light on the Bldg.	1314.00 KWH/Annum
7	4) Energy Saving by Solar Hot Water System.	453375 KWH/Annum

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	Barricating the site.	Green belt will be provided.
Water	STP is installed for Existing phase & excess treated water used for flushing & gardening.	for proposed development STP will be installed & excess treated water used for flushing & gardening.
Noise	Noise monitoring has done in once a fortnight	Traffic management plan to be prepared. Acoustically enclosed DG set will be brought & installed.
Solid Waste	OWC is installed for existing phase.	For proposed phase Wet Waste will be treated in OWC. STP sludge will be Used as Manure after treatment in OWC. Dry waste will be given to SWaCH.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 64.70 Lakh
	O & M cost:	Rs. 1.29 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air & Noise Monitoring	0.50 Lakh/Year
2	Water Environment	Tanker Water for Construction, Water Monitoring	0.50 Lakh/Year
3	Land Environment	Site Sanitation –Mobile toilets	0.50 Lakh/Year

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4	Socio-economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Creches For Children, Food for children, Personal Protective Equipment	1.00 Lakh/Year

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	STP1 & 2 (Existing)	Capacity -120 KLD & 130 KLD	60.00	12.00
2	STP 3 (Proposed)	Capacity - 60 KLD	21.24	8.44
3	STP 4 (Proposed)	Capacity - 75 KLD	23.90	8.47
4	STP 5 (Proposed)	Capacity - 140 KLD	33.37	11.00
5	STP 6 (Proposed)	Capacity - 20 KLD	11.90	6.48
6	RWH	-	11.00	1.00
7	MSW1 & 2 (Existing)	-	21.25	5.46
8	MSW 3 (Proposed)	-	11.50	2.29
9	MSW 4 (Proposed)	-	11.50	2.24
10	MSW 5 (Proposed)	-	13.50	2.65
11	MSW 6 (Proposed)	-	10.00	2.23
12	Solar System	-	64.70	1.29
13	Landscaping	-	47.00	7.50
14	Swimming Pool -1	-	24.57	2.22
15	Swimming Pool -2	-	24.57	2.22
16	Swimming Pool -3	-	22.86	2.22
17	Safety Equipments	-	10.00	2.00
18	Post EC Monitoring	-	-	2.50
19	Dry Waste management	-	-	4.47

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	-
	Number and area of podia:	-
	Total Parking area:	32195.20 m2
	Area per car:	42.92 m2
	Area per car:	42.92 m2
	Number of 2-Wheelers as approved by competent authority:	1876
	Number of 4-Wheelers as approved by competent authority:	750
	Public Transport:	NA
	Width of all Internal roads (m):	6 .00 m
	CRZ/ RRZ clearance obtain, if any:	No
	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	No
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

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SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.

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

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 59332.92 m2, FSI area of 66041.70 m2, Non FSI area of 54823.27 m2 and total BUA of 120864.97 m2.

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

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DECISION OF SEAC

PP has satisfactorily complied with the points raised in 85th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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92nd SEAC-3 Day 02

SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for Proposed Housing Scheme for MHADA (Phase I + Phase II) at S.No. 126 +127/1, Tathawade, Taluka - Mulshi, District- Pune.

Is a Violation Case: No

1.Name of Project	Proposed Housing Scheme for MHADA (Phase I + Phase II)
2.Type of institution	Government
3.Name of Project Proponent	Pune Housing and Area Development Board, Pune. (A Unit of MHADA)
4.Name of Consultant	Fine Envirotech Engineers
5.Type of project	Housing Project -MHADA
6.New project/expansion in existing project/modernization/diversification in existing project	Amendment in Environmental Clearance.
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, Environmental Clearance received vide no. SEAC 2013/C.R.467/TC3, Dated:1/12/2015 from Government of Maharashtra.
8.Location of the project	S.No. 126 +127/1, Tathawade, Taluka - Mulshi, District- Pune
9.Taluka	Mulshi
10.Village	Tathawade
Correspondence Name:	Pune Housing and Area Development Board, Pune. (A Unit of MHADA)
Room Number:	01
Floor:	3rd Floor
Building Name:	Grihanirman Bhavan
Road/Street Name:	Alankar Talkies Road
Locality:	MHADA Building, Agarkar Nagar
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri- Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD approval received from Building Permission Department PCMC, Pimpri, Pune, dated:20/04/2019. Sanctioned No. B.P/ENV/Tathawade/ 03/ 2019.
	IOD/IOA/Concession/Plan Approval Number: Sanctioned No. B.P/ENV/Tathawade/ 03/ 2019, Dated:20/04/2019
	Approved Built-up Area: 141237.58
13.Note on the initiated work (If applicable)	No work is initiated.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	56,509.16 sq.mt.
16.Deductions	16,053.79 sq.mt.
17.Net Plot area	40,455.37 sq.mt.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 141,237.58 sq.mt. (Phase I - 51,593.04 sq.mt. + Phase II - 89,644.54 sq.mt.)
	b) Non FSI area (sq. m.): 1,30,227.20 sq.mt. (Phase I - 44,375.90 sq.mt. + Phase II - 85,851.30 sq.mt.)
	c) Total BUA area (sq. m.): 271464.78
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 141,237.58 sq.mt.
	Approved Non FSI area (sq. m.): 1,30,227.20 sq.mt.
	Date of Approval: 20-04-2019
19.Total ground coverage (m2)	10,922.29 sq.mt. (Phase I - 3,579.48 sq.mt. + Phase II - 7,342.81 sq.mt.)
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	27.00 %
21.Estimated cost of the project	6250000000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Phase - I	.....	.....
2	Residential Buildings (MIG) - 04 Nos (Building C1, Building C2, Building C3, Building C4)	2 Basement + Stilt Parking + 22 Floors	66.88 m
3	PHASE - II	.....	.....
4	Residential Buildings (MIG) - 02 Nos. (Building A1 , Building A2)	Building A1-2 Basement + Stilt Parking + 22 Floors., Building A2-2 Basement + Stilt Parking + 21 Floors.	Building A1 - 68.50 m., Building A2 - 65.55 m
5	Residential Buildings (HIG) - 01 No. (Building B1)	2 Basement + Stilt Parking + 22 Floors.	68.50 m

23.Number of tenants and shops	Total Residential Tenements - 1,262 nos. (Phase I - 680 nos + Phase II - 582 nos) Commercial :Shops - 45 nos. and Offices -13 nos.
24.Number of expected residents / users	Total Residents - 6,310 nos. (Phase I - 3,400 nos. + Phase II - 2,910 nos.) and Commercial users - 7,050 nos.
25.Tenant density per hectare	250 per hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	60.00 m wide road main road and 18.00 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m turning radius for easy access of fire tender movement from all around building excluding the width for the plantation.
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PCMC/ Recycled water
	Fresh water (CMD):	709 kld (Phase I - 306 kld + Phase II - 403 kld)
	Recycled water - Flushing (CMD):	460 kld (Phase I - 153 kld + Phase II - 307 kld)
	Recycled water - Gardening (CMD):	27 kld
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1,196 kld
	Fire fighting - Underground water tank(CMD):	800 kld
	Fire fighting - Overhead water tank(CMD):	200 kld
	Excess treated water	355 kld
Wet season:	**Source of water**	PCMC/ Recycled water
	Fresh water (CMD):	709 kld (Phase I - 306 kld + Phase II - 403 kld)
	Recycled water - Flushing (CMD):	460 kld (Phase I - 153 kld + Phase II - 307 kld)
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	1,169 kld
	Fire fighting - Underground water tank(CMD):	800 kld
	Fire fighting - Overhead water tank(CMD):	200 kld
	Excess treated water	382 kld
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon 26m and post Monsoon 4m below Ground level.
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	10 nos.
	Size of recharge pits :	2m X 2m X 2m Depth
	Budgetary allocation (Capital cost) :	Rs. 10 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 2.5 Lakhs / year
	Details of UGT tanks if any :	Domestic water tank - 622.35 cum. Flushing water tank - 311.17 cum. Fire water tank - 800 cum.
35.Storm water drainage	**Natural water drainage pattern:**	Open storm water drain with gratings are proposed
	Quantity of storm water:	0.75 m3/sec
	Size of SWD:	450/600/800/900 mm wide
Sewage and Waste water	**Sewage generation in KLD:**	936 kld (Phase I - 367 kld + Phase II - 569 kld)
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of capacity 700 kld and 1 STP of capacity 270 kld
	Location & area of the STP:	Area for STP of capacity 700 kld - 450 sq.mt., Location – On Ground and Area for STP of capacity 270 kld - 112 sq.mt., Location – On Ground
	Budgetary allocation (Capital cost):	Rs. 150 Lakhs
	Budgetary allocation (O & M cost):	Rs. 40 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Excavated materials quantity - 88,117.00 cum
	Disposal of the construction waste debris:	Excavated material of quantity 22,350.00 cum shall be partly reused for backfilling and leveling on site and remaining excavated material 65,767.00 cum shall be disposed by authorized contractor
Waste generation in the operation Phase:	**Dry waste:**	2,496 kg/day (Phase I - 680 kg/day + Phase II - 1,816 kg/day)
	Wet waste:	2,588 kg/day (Phase I - 1,020 kg/day + Phase II -1,402 kg/day + Gardening waste -166 kg/day)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	73 kg.
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handed over to authorized agency/recycler.
	Wet waste:	Wet waste will be process in Organic Waste Converter and compost will be used as manure for gardening.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure for gardening
	Others if any:	NA
Area requirement:	**Location(s):**	On Ground
	Area for the storage of waste & other material:	100 sq.mt.
	Area for machinery:	30 sq.mt.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 50 Lakhs
	O & M cost:	Rs. 15 Lakhs

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

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43.Green Belt Development	**Total RG area :**	4,495.04 sq.mt
	No of trees to be cut :	NA
	Number of trees to be planted :	565 nos.
	List of proposed native trees :	Karanj, Shivan, Putranjiva, Neem, Son chafa, Nandruk, Palas, Shirish, Parijatak, Kanchan, Bhava, Savar, Mango, Awala, Guava, Tamarind, Pangara, Kadam, Kunti, Sita Ashoka, Bakul, Arjun, Apta, Ber, Chapa, Nirgudi, Stachytarpheta.
	Timeline for completion of plantation :	2 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Pongamia pinnata	Karanj	15 nos.	Shady tree
2	Gmelina arborea	Shivan	07 nos.	Fast growing tree with beautiful yellow flowers
3	Putranjiva roxburghii	Putranjiva	08 nos.	Medium sized evergreen tree
4	Azardirachta indica	Neem	50 nos.	Semi-evergreen tree with medicinal value
5	Michelia champaca	Son Chafa	16 nos.	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
6	Ficus retusa	Nandruk	08 nos.	Medium sized evergreen tree, Shady tree.
7	Butea monosperma	Palas	06 nos.	Medium sized deciduous tree. Beautiful orange flowers, Butterfly host plant
8	Albizia lebbeck	Shirish	57 nos.	Shady tree, yellowish green fragrant flowers
9	Nyctanthes arbor-tristis	Parijatak	55 nos.	Small deciduous fast growing tree, beautiful flowers.
10	Bauhinea purpurea	Kanchan	30 nos.	Butterfly host plant
11	Cassia fistula	Bhava	58 nos.	Drought tolerant, ornamental and medicinal plant
12	Bombax ceiba	Savar	10 nos.	Large deciduous tree. Flowers attract many birds.
13	Magnifera indica	Mango	10 nos.	Edible fruit , bird attracting species
14	Emblica officinalis	Awala	10 nos.	Medium size tree with green yellow flowers
15	Psidium guayava	Guava	05 nos.	Small tree with white flower and green colored fruit.
16	Tamarindus indica	Tamarind	20 nos.	Medium value, Edible fruit
17	Erythina indica	Pangara	12 nos.	Medium sized deciduous tree. Bright scarlet flowers
18	Anthicephallus cadamba	Kadamba	08 nos.	Shady, large tree, ball shaped flowers
19	Murraya paniculata	Kunti	07 nos.	Small tree, Fragrant white flowers, Butterfly host plan

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20	Saraca asoka	Sita Ashoka	08 nos.	Shady tree with red yellow flowers. Good for road side plantation
21	Mimusops elengi	Bakul	18 nos.	Shady tree, small white fragrant flowers
22	Termilia cuniata	Arjun	24 nos.	Large trees of the flowering plant
23	Bauhinia racemosa	Apta	45 nos.	Draught resistance and good air purifier
24	Ziziphus mauritiana	Ber	08 nos.	Small tree with fragrant white flowers
25	Plumeria alba	Chapa	09 nos.	Beautiful white flowers, Butterfly host plant
26	Vitex negundo	Nirgudi	16 nos.	Good for Hedge, flowers attract butterflies & moth
27	Stachytarpheta sp.	Stachytarpheta	45 nos.	Ornamental, flowers attract butterflies
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	350 KW
	DG set as Power back-up during construction phase	400 KW
	During Operation phase (Connected load):	16,308.5 KW (Phase I - 4,736 KW + Phase II - 11,572.5 KW)
	During Operation phase (Demand load):	8,817.06 KW (Phase I - 2,126.72 KW + Phase II - 6,690.34 KW)
	Transformer:	19 nos. of 630 KVA
	DG set as Power back-up during operation phase:	5 nos x 320 KVA + 3 nos. of 500 KVA (Phase I- 2 nos x 320 KVA + 1 no. of 500 KVA + Phase II - 3 nos x 320 KVA +2 nos. of 500 KVA)
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1) LED Tube Lights for common area lights.
2) PV Solar system for common lights.
3) VVVF Drive for Lift motor.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

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1	Energy saving by using LED light Fixture	36 %
2	Energy saving by using solar system for common areas	1.01 %
3	Energy saving by using VVVF drive for lift	35 %

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. 120 Lakhs
	O & M cost:	Rs. 6 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 and Noise	Site Barricading and Dust Control Measures	37.20
2	Water	Tanker Water For Construction And Waste Water Management	05.55
3	Solid Waste	Construction Waste Management	03.42
4	Occupation Health and safety	Health Checkup of Workers, Disinfection at Site, First Aid Facility, Personal Protective Equipment	05.50
5	Environmental Monitoring	Air, Noise, Water, Biological	07.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP of capacity 700 kld and 1 STP of capacity 270 kld based on MBBR technology	150.0	40.00
2	Rainwater Harvesting System	10 nos. of Recharge Pits	10.00	02.50
3	Solid Waste Management	OWC, Manpower and colored dustbins	50.00	15.00
4	Green Belt Development	Landscaping and tree plantation	30.00	05.00
5	Energy Saving Measures	Use of LED Tube Lights PV Solar system for common area lights and VVVF Drive for Lift motor	120.0	06.00

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	3 nos.
Parking details:	**Number and area of basement:**	No. of Basements - 2 nos., Area of Basements - 50,353.86 sq.mt
	Number and area of podia:	NA
	Total Parking area:	72,201.80 sq.mt. (Basement - 50,353.86 sq.mt. + Stilt - 21,847.94 sq.mt.)
	Area per car:	33.60 sq.mt.
	Area per car:	33.60 sq.mt.
	Number of 2-Wheelers as approved by competent authority:	Scooters - 5,200 nos. (Phase I+ Phase II) and Cycles - 3,416 nos. (Phase I + Phase II)
	Number of 4-Wheelers as approved by competent authority:	1,542 nos. (Phase I- 374 nos.+ Phase II - 1,168 sq.mt.)
	Public Transport:	NA
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(b) B1
	Court cases pending if any	NA

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	Other Relevant Informations	We are applying for grant of Terms of Reference (ToR) for the Environmental clearance for Proposed Housing Scheme for MHADA (Phase I + Phase II) at S. No. 126 +127/1, Tathawade, Taluka - Mulshi, District- Pune. Environmental Clearance received vide no. SEAC-2013/C.R.467/TC3, Dated:1/12/2015 from Government of Maharashtra. The proposed project will be developed in 2 Phases i.e Phase I and Phase II.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

SEAC-AGENDA-0000000312

PP submitted his application for prior Environmental clearance for total plot area of 56509.16 m2, FSI area of 1,41,237.58 m2, Non FSI area of 1,30,227.20 m2 and total BUA of 271464.78 m2.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(b)B1.

DECISION OF SEAC

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Committee informed PP to use model TOR available on the web site of MoEF&CC in addition to the points mentioned below for carrying out EIA studies:

Additional terms of Reference for carrying out EIA studies

1. **Project Description**

1. Project description, its importance and the benefits.

2. Project site details (location, topo-sheet of the study area of 10 Km, Coordinates, google map, layout map, land use, geological features and geo-hydrological status of the study area, drainage). Hydro-geological survey report with graphs & data.

3. Land use as per the approved Master Plan of the area, Permission/approvals required from the land owning agencies, Development Authorities, Local Body, Water supply & Sewerage Board, etc.

4. Land acquisition status, R & R details.

5. Forest and Wildlife and eco-sensitive zones, if any in the study area of 10 km. Any sensitive areas in impact zone such as archaeological structures, reserved forest, noise sensitive zones etc. Clearances required under the Forest (Conservation) Act, 1980, the Wildlife (Protection) Act, 1972 and/or the Environment (Protection) Act, 1986.

6. (G) High Tension wires if any on the plot.

7. (G) Plan showing HFL.

8. (G) Permissions granted by State Government in tabular and chronological form. Comparative statement of components approved and components constructed as per earlier EC (if applicable) and proposed development.

9. (G) PP to submit the detailed master plan indicating already completed construction and proposed construction. PP to submit the certificate from architect for completed work

2. **Base Line Data**

10. (B) Baseline environmental study for ambient air (PM_{10}, $PM_{2.5}$, SO_2, NO_x & CO),water (both surface and ground), noise and soil as per MoEF&CC/CPCB guidelines at minimum 5 locations in the study area of 10 km, The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or an environmental laboratory duly notified under the Environment (Protection) Act,1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.

11. (C) Detail on flora and fauna and socio-economic aspects in the study area. Details of tree cutting, tree transplantation and survival report of existing trees.

12. (C) Likely impact of the project on the environmental parameters (ambient air surface and ground water, land, flora and fauna and socio-economic, etc.)

13. (B) Source of water for different identified purposes with the permissions required from the concerned authorities, both for surface water and the ground water (by CGWA) as the case may be, Rain water harvesting, etc.

14. (G) Socio-economic infrastructure details including public transport arrangements on the site; PP to mention details of socio-economic in EIA.

15. (G) PP to submit contour map with slopes, drainage pattern of the site and surrounding area. Layout showing natural water courses on site; total runoff calculation before and after development.

16. (C) PP to submit details of existing trees, proposed to be cut, proposed to be transplanted along with tree survival report

3. **Traffic Impact Study in detail including:**

17. (V) Traffic Management Plan for the development – Internal circulation indicating road width and turning radius. Cross section of roads at four places showing clear road width, distance left from building line, spaces left for plantation, footpath, service lines etc.

18. (V) Traffic Volume Counts and Turning Movement Counts on all the external surrounding roads of the proposed project showing the time period taken.

19. (V) Topographic details of roads and intersection of the surrounding roads where counts are taken, actual geometry on ground to be shown with dimensions.

20. (V) Traffic generation values of similar development to be given by actual count by actual count as support data for assumption made to the particular project.

21. (V) Parking statement mentioning parking as per DCR & parking provided actually.

22. (V) Basement ventilation plan: Fire Tender Movement Plan showing clear road and turning radius. Cross section of roads at four places including UGT, OWC and DG set location showing clear road width and distance left from building line & spaces left for plantation, parking, service lines, foot paths, etc.

4. **Environmental Impact and Management Plan:**

23. (B) Identify sources of air pollution, indicate mitigation measures to reduce Air pollution/Noise pollution.

24. (G) Debris management plan including (a) debris required for refilling, (b) contour plan, (c) details of site where excess debris will be disposed, capacity of the site and NOC of plot owner. PP shall also ensure that debris disposed on other plot shall not be disposed on another plot. If to be disposed on another plot, the same shall be carried out as per prevailing environmental laws.

25. (B) Management of solid waste and the construction & demolition waste for the project vis-a-vis the Solid Waste Management Rules 2016 and the Construction & Demolition Rules, 2016. Transport, collection, storage and disposal for all types of wastes like hazardous waste, non-hazardous waste, solid waste, E– waste, and debris/excess earth etc. PP to provide the detailed solid waste management plan along with marked locations on the master plan. Design details of waste processing equipment such as OWC/biogas plants confirming to the technical requirements to meet the quality products.

26. (B) Waste water management (treatment, reuse and disposal) for the project and also the study area. Design of all STP's along with BOD load, oxygen requirement calculations and sizing of the tanks with respect to the design criteria. PP to submit detailed calculation for the disinfection of the treated STP water; PP to submit cross sectional drawing of STP's showing dimensions and ground level; PP to provide ozonation for tertiary treatment. PP to mark the area required for all STP's on master layout with dimensions

27. (J) PP to show internal storm water drain and sewer line arrangements up to final disposal point.

28. (C) Provision of mandatory RG area on virgin land and submit the drawing with calculations, ensuring entire mandatory RG is provided on the plot where residential buildings are proposed.

29. (G) A detailed phase wise development plan with safety planning where occupancy has been given.

30. (T) If any site specific structures such as creation of water body, alteration of natural storm water, large alteration of slopes, creation of green areas abutting to water bodies / natural storm water drain / river etc, is involved, detailed environmental protection approach for the same shall be provided.

31. (D) Separate chapter on Renewable energy in EIA report. PP to submit terrace plan for installing solar panels& calculations of energy saving; Energy efficient measures (LED lights, solar power, etc.) during construction as well as during operational phase of the project. Report on ECBC compliance.

32. (D) Provide details of Solar PV and Solar water heater in the specific format. PP to carryout shadow analysis for identifying the roof-top area for providing solar panels

33. (B) Environmental status report including analysis reports of all environmental pollution reduction facilities if any commissioned.

34. (K) PP to submit Disaster management plan

35. (B) Preparation of site specific, executable and auditable environment management plan (EMP)

5. **Environmental Modelling and additional Studies:**

36. (B) Fugitive dust modelling by using local meteorological data.

37. (B) Ecological footprint calculation using LCA approach.

38. (B) Estimation of Carbon footprint of the project.

39. (B) Gate mass balance analysis for environmental parameters related to solid/liquid waste material coming to site, waste generated and its treatment and disposal from site.

6. **NOCs, Undertakings and CER:**

40. (T) NOC's required: a) CFO NOC, b)Water supply NOC with quantity, c) Drainage NOC, d) Non-biodegradable waste disposal.

41. (T) Undertaking to provide DG set backup to all Pollution Control Devices, Water Supply, Emergency Services including emergency lifts, etc.

42. (K) PP to submit details of CER activities in consultation with the affected people in the project area as per MoEF&CC circular dt. 01.05.2018, along with details of fund utilization & agreement or consent of executor.

Specific Conditions by SEAC:

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FINAL RECOMMENDATION

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

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SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for Environmental clearance For Development of Intermodal station

Is a Violation Case: No

1.Name of Project	Development of Intermodal station
2.Type of institution	Government
3.Name of Project Proponent	PIU2, Nagpur, National Highway Authority of India
4.Name of Consultant	Aplinka Solutions & Technologies Pvt. Ltd.
5.Type of project	Township or Others
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	At Ajni Railway Station
9.Taluka	Nagpur
10.Village	Ajni
Correspondence Name:	Mr Abhijit P Jichkar
Room Number:	PIU 2, Bunglow No 1
Floor:	NA
Building Name:	Shubhankar Apartment , Plot No 159
Road/Street Name:	Ambazari Hill Top
Locality:	Ram Nagar
City:	Nagpur
11.Whether in Corporation / Municipal / other area	Nagpur Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: in process
	Approved Built-up Area: 144985
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	222576.75
16.Deductions	NA
17.Net Plot area	NA
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 110895
	b) Non FSI area (sq. m.): 34090
	c) Total BUA area (sq. m.): 144985
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 110895
	Approved Non FSI area (sq. m.): 144985
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	43655
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.61
21.Estimated cost of the project	15000000000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Station Building	G+2	-
2	Railway Amenities in IMS	G+1	-
3	FOB	G+2	-
4	Platform Covering	-	-
5	Bus amenities in IMS	G+1	-
6	Bus Bays	G+1	-
7	Bus Bays	G+1	-
8	Bus Bays	G+1	-
9	Bus Bays	G+1	-
10	Bus Bays	G+1	-

23.Number of tenants and shops	NA
24.Number of expected residents / users	number of passengers-329350(estimation upto year 2050 @2% growth rate per annum.)
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	right of way 14 meter
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 meter
29.Existing structure (s) if any	140 number of building are present at site including residences, staff quarter, offices, library, temple, schools which will be demolished and the existing inhabitants will be relocated by Indian Railway.
30.Details of the demolition with disposal (If applicable)	140 existing building will be demolished

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	Municipal supp;y
	Fresh water (CMD):	1500
	Recycled water - Flushing (CMD):	1000
	Recycled water - Gardening (CMD):	150
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	3370 (estimation upto year2050)
	Fire fighting - Underground water tank(CMD):	30
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	Zero liquid Discharge
Wet season:	**Source of water**	Municipal supply
	Fresh water (CMD):	1500
	Recycled water - Flushing (CMD):	1000
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	3220 (estimation upto year2050)
	Fire fighting - Underground water tank(CMD):	30
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	150
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	NA	1500	1500	NA	300	300	NA	1200	1200
Gardening	NA	150	150	NA	150	150	NA	0	0

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 mbgl
	Size and no of RWH tank(s) and Quantity:	one RWH tank(capacity-620 M3)
	Location of the RWH tank(s):	on surface
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	55 lakh
	Budgetary allocation (O & M cost) :	8 lakh
	Details of UGT tanks if any :	Fire Fighting tank- 30000 liter Raw water tank-400000 liter Domestic water tank-40000 liter Flushing water tank-40000 liter Soft water tank-250000 liter
35.Storm water drainage	**Natural water drainage pattern:**	as per contour
	Quantity of storm water:	620 m3
	Size of SWD:	-
Sewage and Waste water	**Sewage generation in KLD:**	2200
	STP technology:	MBBR
	Capacity of STP (CMD):	2 STP of 1250 KLD each
	Location & area of the STP:	in Basement
	Budgetary allocation (Capital cost):	250 lakh
	Budgetary allocation (O & M cost):	37.5 lakh
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	3.94 ton/day C& D waste
	Disposal of the construction waste debris:	Used for back filling and road making and final disposal will be done as per C& D Waste Management Rules 2016
Waste generation in the operation Phase:	**Dry waste:**	19962.23 kg/day
	Wet waste:	29943.47 Kg/day
	Hazardous waste:	used oil
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	184.8 Kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Dry waste shall be disposed by authorized vendors
	Wet waste:	Organic waste Converter
	Hazardous waste:	By authorized vendor with proper agreement under provision of HWM Rule 2016
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	will be used as manure for maintenance of green belt in operation phase
	Others if any:	NA
Area requirement:	**Location(s):**	in Basement
	Area for the storage of waste & other material:	700 Sqm
	Area for machinery:	-
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	29.94 lakh
	O & M cost:	4.49 lakh

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	7.15-8.2	7.1-7.3	6.5-9.5
2	TSS	mg/l	200-350	<20	20
3	BOD	mg/l	200-250	<10	10
4	COD	mg/l	300-400	<50	50
5	oil and grease	mg/l	10-15	<2	10

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used oil	5.1 as per HWM Rules 2016	-	0	-	-	by authorized Vendors as per HWM Rules 2016

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	8X2000 KVA	High speed diesel 320 liter/hr on 80% load	8	as per CPCB norms	-	-

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40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	0	261 MT per month	261 MT per month
41.Source of Fuel		Nearest Petrol Pump		
42.Mode of Transportation of fuel to site		ByTrucks		

43.Green Belt Development	**Total RG area :**	66773.025 Sqm
	No of trees to be cut :	1600
	Number of trees to be planted :	in ratio of 1:3 (1600X3=4800) (The compensatory afforestation will be provided in allocated area after prior permission from District Collextrate)
	List of proposed native trees :	All are native species
	Timeline for completion of plantation :	Till the finishing 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	Acacia nilotica (Linn) Willd.	Babul	84	Its flowrening season is from August to Janury nad crown shape is spreading. Crown area is 8293.74 sqm and stomatal index is 11.23.
2	Acacia auriculiformis A.cunn	Australian Wattle	84	its crown shape is oblong , flowrening season is 8548.22 sqm and Stomatal index is 10.9
3	Albizia moluccana Mig	Subabul, Vilaitibaral	84	Flowering Season:- July-October , crown shape is oblong
4	Albizia odoratissima benth	Kala Siris	84	Flowering Season:- April-June and crown shape- oblong
5	Alstonia Scholaris(linn.)R. Br.	Chattiyan	84	Flowering Season:- December-March, Crown Shpe- Round, crown surface area:- 241680.50 Sqm , stomatal index:- 15.23
6	Anona swuamosa Linn.	Seetaphal	84	Flowering Season- March-July, Crown shape- Round, Crown surface area:- 2178.21 Sqm, stomatal index-26.19
7	Anona reticulata Linn.	Luvuni,nona	84	Flowering Season-June, Crown Shape- Round, Crown surface area-2017.44 Sqm , stomatal index- 17.24
8	Azadirachta indica A. juss.	Neem	84	Flowering Season-Jan- March, Aug-Sept, Crown Shape- Spreading, Crown Surface Area-300445.30 Sqm , Stomatal Index- 29.2
9	Buchanania lanzan Spreng	Chiranji	84	Flowering season- Jan- March , Cown Shape- Round
10	Barringtonia acutangula(l)Gaertn	Hijal	84	Flowering Season-March-May,Sept- Oct., Crown Shape-Spreading

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11	Cassia siamea Lamk	Minjri (Beng.)	84	Flowering season-Aug-May, Crown Shape-oblong, Crown Surface area-3927.36 Sqm, Stomatal index-21.2
12	Casuarina equisetifolia Linn.	Jangli saru	84	Flowering season-Feb. -April, Sept-OCT Crown Shape-Oblong
13	Citrus aurantium Linn	Nimbu	84	Flowering Season-Sept - Nov, Crown shape-Round/Oblong,Crown Surface Area-494.9 Sqm, Stomatal Index-35.81
14	Cordia dichotoma Farst	Cordia dichotoma Farst	84	Flowering season-March-April, Crown shape- Round/Oblong
15	Cassia pumila Lamk	Yellow Cassia	84	Crown shape-Round, Crown Surface Area- 13,273.70 Sqm,Stomatal Index-19.84
16	Derris indica (Lam.)Bennett.	Karanja	84	Flowering Sesaon-April - June, Crown Shape- Round, Crown Surface Area- 6278.1 sqm, Stomatal Index-25.2
17	Duranta repens L	-	84	Flowering season-Throughout the year ,Crown Shape-Spreading Crown Surface Area-60.47 sqm, stomatal Index-21.5
18	Eucalyptus citriodora Hook	Lemon scented gum	84	Flowering season-Feb- April, Oct-Dec Crown shape-Conical , crown surface area-52447.63 sqm, Stomatal index-12
19	Eucalyptus hybrid	Mysore gum	84	Flowering Season-Feb. -April, Oct.-Dec. Crown Shape-Conical , Crown Surface area-50047.33 Sqm,Stomatal Index-12.91
20	Ficus benghalensis Linn	Bargad	85	Flowering Season-April - June, Crown shape- Spreading, Crown Surafce area- 236,493.67 Sqm Stomatal index-21.72
21	Ficus benjamina Linn	Pakur	84	Flowering Season-Sept - Nov, Crown Shape- Spreading, Crown Surface Area- 87326.12 Sqm , Stomatal Index-18.62
22	Ficus elastica Roxb	Indian Rubber Tree	84	Crown Shape-Spreading/ Round, Crown surface area-6028.18 sqm, Stomatal index-19.43
23	Ficus gibbosa Blume	Korotosani(Orisa)	84	Flowering Season-April - May, crown Shape-Spreading, Crown Surface area-223,45.4 sqm, Stomatal Index-19.81
24	Ficus hispida (L) F.	Kanea dumbar	85	Flowering Season-April- July, crown shape- Spreading, crown Surface area-46942.02 Sqm, Stomatal index-17.21
25	Gardenia tasminoides Eills	-	84	Flowering season-April - Aug Extended upto Sept., crown shape-Oblong , Crown surface area-265.87 Sqm, Stomatal index-19.21
26	Grevillea robusta A. Cunn.	Silvery or Silky oak	85	Flowering Season-Feb - April, Crown shape- Oblong

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27	Guazma ulmifolia Lamk	Rudraki	84	Flowering season-Mar - August., Crown shape-Round/ Spreading, crown Surface area-30279.8 Sqm, Stomatal index-13.31
28	Heterophragma roxburghiji DC	-	84	Flowering Season-Feb. - April., Crown Shape- Round/ Oblong, crown Surafce Area-155217.7 Sqm, Stomatal Index-14.2
29	Hibiscuc rosa-sinensis Linn	Jasum	84	Flowering Season-Throughout the year, Crown shape-Round / Oblong , Crown Surafce Area- 61.47 Sqm, stomatal index-3.32
30	Ixora arborea Roxb	-	84	Flowering Season-Throughout the year Crown shape-Oblong to spreading, Crown surface Area -57.04 Sqm, Stomatal Index- 17.3
31	IIxora coccinea L	Rangan	84	Flowering Season-Throughout the year, crown Shape- Oblong , Crown surface Area-183.26 sqm, Stomatal Index-23.3
32	Ixora Rosea	-	84	Flowering Season-More or Less throughout the year, Crown shape-Oblong, crown surface area-296.03 sqm, stomatal index-20.3
33	Kigelia africana Lamk	Sausage tree	84	Flowering season-Mar.- June, Crown shape- Round/Oblong, Crown surafce area- 58432.21 Sqm, Stomatal Index-12.9
34	Lagerstroemia speciosa (Linn)	Jarool	84	Flowering Season-April - June., Crown shape- Oblong, Crown surface area- 72569.31 Sqm, Stomatal Index-13.9
35	Mimusops elengi Linn	Bakul	85	Flowering Season-Jan.- Mar., Crown shape- Oblong / Round, Crown surface area- 13,385.20 Sqm, Stomatal Index-22.31
36	Mimusops hexandra Roxb.	Khirni	85	Flowering Season-Sept - Nov, Crown shape- Oblong / Round , Crown surface area-4063.1 sqm,Stomatal Index- 20.4
37	Morus alba Linn.	Tut	84	Flowering season-Feb.- June, Crown shape- Oblong, Crown Surface Area- 1047.62 sqm, Stomatal Index-17.4
38	Managifera Indica Linn	Aam	84	Flowering season-South India -Jan -Mar, Crown shape-Round / Oblong, Crown Surface area-69,004.67 Sqm, Stomatal Index-30.77
39	Millingtonia hortensis L.F	Indian cork- tree, Buch	85	Flowering season-Oct.- Dec., Crown Shape- Oblong / Round , Crown Surface area-22439.17 Sqm, Stomatal Index-18.11
40	Peltophorum pterocarpum(DC)Backer	Copper pod tree.	84	Flowering Season-May - Sept., crown Shape- Oblong / Round, crown surafce area- 231045.3 Sqm, Stomatal Index-16.68

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41	Prosopis cineraria Linn.	Khejri	84	Flowering season,Dec. - April., crown Shape- Spreading, Crwon surface area- 13430.6 , stomatal index-18.1
42	Prosopis tamarugo Fiphil.	-	84	Flowering Season-Dec. - April., Crown shape- Spreading
43	Psidium guayava Linn.	Amrud	84	Crown Shape-Oblong, crown surface area- 9,243.10 Sqm, Stomatal index- 28.38
44	Pithecellobium ducle (Roxb.) Benth	Vilayatimili	85	Flowering Season-Jan. - Feb., crown Shape- Oblong, Crown surface Area- 2564.75 Sqm, Stomatal index-11.78
45	Sesbania Grandiflora Pers	Ogosti(Oriya)	85	Flowering season-Sept. - Dec., Crown shape- Oblong, Crown surafce area- 4694.87 sqm, stomatal Index- 20.45
46	Sesbania Sesban (Linn)Merrill	Jainti	85	Flowering season-Aug. - Dec., Crown shape- Oblong, crown surface area- 4563.7 sqm, stomatal index-19.2
47	Spathaodea campanulata Beauv	Indian Tulip Tree	84	Flowering season-Nov. - Jan., crown shape- Oblong/ Round , crown surface area-73250.17 sqm, Stomatal Index-24.84
48	Spondias pinnata (L.f)	Bemg & Mar- Amra	84	Flowering Season-Feb - April, Crown shape- Round, Crown surface area- 25587.31 Sqm, Stomatal index-22.9
49	Syzygium cumini Linn	Jaman	84	Flowering sesaon-Mar. - May., Crown shape- Oblong/ Spreading, crown surface area-112143.2 Sqm, stomatal Index-20.6
50	Samanea saman Jacq	Rain Tree	84	Flowering season-Mar. - june. , crown shape-Spreading /Round , Crown surface area-99306.2 sqm, Stomatal Index-15.64
51	Saraca asoka Roxb.De Wilde	Ashok	84	Flowering season-Dec. - May, crown shape- Spreading, Crown Surface Area- 2295.2 Sqm, Stomatal index-17.93
52	Thespesia populeneoides(Roxb) Kostel	Parespipal	84	Flowering sesaon-Throught the year , Crown shape- Round crown surface area-34635.32 sqm, Stomatal index-29.81
53	Thuja occidentalis Linn.	American Arborvitae, White cedar	85	Crown Shape-Conical
54	Terma orientalis Blume	Gio	85	Flowering season-Throughout the year , Crown shape-Round/Oblong, Crown surface area- 425,734.10 Sqm Stomatal index-27.3
55	Tamarindus Indica Linn	Imli	84	Flowering season-April - Oct. Crown Shape-Spreading, Crown Surface area- 276839.5 Sqm, stomatal Index-18.4
56	Zizyphus mauritiana Var. Fruticosa	Ber	84	Flowering season-April -Oct. Crown shape-Round Crown surface area-2638.17 Sqm,Stomatal Index-12.4

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57	Acacia tortilis Hayne	The Umbrella thorn tree	85	
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	1500 KVA
	DG set as Power back-up during construction phase	1X500 KVA+1X1000KVA
	During Operation phase (Connected load):	15 MVA
	During Operation phase (Demand load):	15 MVA
	Transformer:	ESS-1(4 no x 2000 KVA each 33Kv ESS-2 (4 nox 2000 KVA each 33 KV)
	DG set as Power back-up during operation phase:	8x 2000 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

The building is proposed to be GRIHA 4 Star rated. As per GRIHA requirement 20 % of Lighting and HVAC power requirement is to be met with renewable energy . The requirement of Solar PV Cells works out as 1500 KWp .
The Roof over platforms and Bus Bays are proposed to be used for multi purpose i.e provide shade to the platform below, rain water harvesting and installation of Solar panels.
The Solar PV Cells will be installed over the roof of platforms and Bus Bays as per architectural drawings. It is expected that Solar PV Cells of 1500 KWp can be installed over the areas available.
The IMS consisting of Railway Station and Bus Stand is operational 24 x 7 . The power generated by Solar PV cells is proposed to be used on site in various applications like lighting, ventilation, air-conditioning , lifts and other loads which are available round the clock. The minimum load is expected to be more than the proposed capacity of Solar PV Cells. It is expected that there will be no surplus power generated by Solar PV Cells.
Provision of connection of Solar PV Cells has been kept in all the main panels of Transformers. As such solar power can feed the main panels at 8 locations.
It is therefore proposed that Solar Panels will be connected with main panles at 8 locations and will feed power to the main panels.
The work involves complete design, engineering , supply of all material , installation, testing and commissioning of Solar PV cells of minimum 1500 KWp.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Project has provisison of solar plant	-

50.Details of pollution control Systems

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Source	Existing pollution control system	Proposed to be installed
waste water	NA	STP
Biodegradable waste	NA	OWC
Noise Due to DG sets	NA	DG will be installed within acoustic enclosure and with proper stack heigt as per CPCB

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	30 lakh
	O & M cost:	10 lakh

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	water for Dust Supression	particulate matter	2
2	Site sanitation and safety	-	3
3	Environmental Monitoring	Air, Noise , soil, Dg set emission and noise and Water	3
4	Health checkup	All relevant pararmeters	1

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage	STP cost	250	37.5
2	Solid waste and OWC	Solid waste Management	29.94	4.49
3	Green area	Green Belt	133	20.03
4	collection of Rain water	Rain water Tank	55	8
5	Energy	Energy efficient equipments	30	10
6	Air, water, noise and soil, STP outlet/inlet	Enviornmental Monitoring	5	2
7	DG sets in acoustic enclosure	Noise pollution Management	600	100

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

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High speed Diesel	Proposed	Near DG Set Room	two tanks of capacity 25.48 MTHSD Storage tank on both side of DG set room	10	261	Nrearest Petrol Pump	truck

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	one basement- 34090 sqm
	Number and area of podia:	NA
	Total Parking area:	-
	Area per car:	100 sqm of FAR per ECS
	Area per car:	100 sqm of FAR per ECS
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	1150 ECS and 127 Bus at bus station
	Public Transport:	-
	Width of all Internal roads (m):	14 meter
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	seminary Hills RF- 4.2 Km in NW Protected Forest near Banwadi-13.8 km in S
	Category as per schedule of EIA Notification sheet	B
	Court cases pending if any	no
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes

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	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

PP remained ***absent***. The proposal was deferred.

DECISION OF SEAC

PP remained ***absent***. The proposal was deferred.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEIAA decision above.

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92nd SEAC-3 Day 02

SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for Proposed Residential Development "Nakshatra I Land" at Gat No. 669, Moshi Alandi Road, off. Pune Nashik Highway, Pune

Is a Violation Case: Yes

1.Name of Project	Nakshatra I Land
2.Type of institution	Private
3.Name of Project Proponent	M/s Ellora Buildwell Pvt. Ltd
4.Name of Consultant	Building Environment (India) Pvt.Ltd
5.Type of project	housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Not applicable
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Gat No. 669, Moshi Alandi Road, off. Pune Nashik Highway, Pune
9.Taluka	Pune
10.Village	Moshi Alandi
Correspondence Name:	Ellora Buildwell Pvt. Ltd. (Owner) Ellora Home Makers Pvt. Ltd. (Developer) Ellora Fiesta, Plot No. 8, Sector-11,Juinagar,Navi Mumbai-400705
Room Number:	Ellora Buildwell Pvt. Ltd. (Owner) Ellora Home Makers Pvt. Ltd. (Developer) Ellora Fiesta, Plot No. 8, Sector-11,Juinagar,Navi Mumbai-400705
Floor:	Ellora Buildwell Pvt. Ltd. (Owner) Ellora Home Makers Pvt. Ltd. (Developer) Ellora Fiesta, Plot No. 8, Sector-11,Juinagar,Navi Mumbai-400705
Building Name:	Ellora Fiesta
Road/Street Name:	Ellora Buildwell Pvt. Ltd. (Owner) Ellora Home Makers Pvt. Ltd. (Developer) Ellora Fiesta, Plot No. 8, Sector-11,Juinagar,Navi Mumbai-400705
Locality:	Juinagar
City:	Navi Mumbai
11.Whether in Corporation / Municipal / other area	Pimpri Chinchwad Municipal Corporation,
12.IOD/IOA/Concession/Plan Approval Number	Moshi/Layout/28/2012 dated 31.08.2012
	IOD/IOA/Concession/Plan Approval Number: IOD/IOA/Concession/Plan Approval Number: Moshi/Layout/28/2012 dated 31.08.2012
	Approved Built-up Area: 108401
13.Note on the initiated work (If applicable)	yes
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	--
15.Total Plot Area (sq. m.)	46,614 .00
16.Deductions	6,765.02
17.Net Plot area	39,848.98
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 52,894.45
	b) Non FSI area (sq. m.): 55,506.58
	c) Total BUA area (sq. m.): 108401
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 54,273.13
	Approved Non FSI area (sq. m.): --
	Date of Approval: 31-08-2012
19.Total ground coverage (m2)	11,526.49
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	29%

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21.Estimated cost of the project	1310000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Type A	P+12	--
2	Type B	P+12	--
3	Type C	P+12	--
4	Type D	P+12	--
5	Type E	LP+UP+12	--
6	Type F	LP+UP+12	--
7	Type G	P+12	--
8	Type H	P+12	--
9	Type I	P+12	--
10	Type J	P+12	--
11	Type K	G+11	--
12	Club House	G+1	--
13	Commercial Bldg	Gr + Mz floor	--
14	Amenity Bldg	G+3 flrs.	--

23.Number of tenants and shops	Flats: 977 Nos; Shops: 33 Nos. Offices: 5 Nos.
24.Number of expected residents / users	Residential: 4885 nos. Offices & Shops: 657 nos.
25.Tenant density per hectare	245 tenant/Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Nearest Fire Station: PCMC Fire Station at Bhosari 6.45 km away from proposed site and existing width of the road from the nearest fire station to the proposed building is 6 mt andproposed to be 24 m wide
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.0
29.Existing structure (s) if any	4 Buildings completed and 1 building (first floor completed)
30.Details of the demolition with disposal (If applicable)	--

31.Production Details

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

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32.Total Water Requirement

Dry season:	**Source of water**	PCMC / STP Treated Water
	Fresh water (CMD):	Residential: 449.00; Commercial: 9.00
	Recycled water - Flushing (CMD):	Residential: 225.00; Commercial: 11.00
	Recycled water - Gardening (CMD):	Residential: 55.00; Commercial: --
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	Residential:729.00; Commercial:20.00
	Fire fighting - Underground water tank(CMD):	Residential:555.00; Commercial:--
	Fire fighting - Overhead water tank(CMD):	Adequate Capacity
	Excess treated water	Residential:326.00; Commercial:7.00
Wet season:	**Source of water**	PCMC / RWH / STP Treated Water
	Fresh water (CMD):	Residential: 449.00; Commercial: 9.00
	Recycled water - Flushing (CMD):	Residential: 225.00; Commercial: 11.00
	Recycled water - Gardening (CMD):	Residential: --; Commercial: --
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	Residential:674.00; Commercial:20.00
	Fire fighting - Underground water tank(CMD):	Residential:555.00; Commercial:--
	Fire fighting - Overhead water tank(CMD):	Adequate Capacity
	Excess treated water	Residential:381.00; Commercial:7.00
Details of Swimming pool (If any)	--	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	5.5 Mtr. to 7.1 Mtrs. BGL
	Size and no of RWH tank(s) and Quantity:	--
	Location of the RWH tank(s):	--
	Quantity of recharge pits:	15 Nos.
	Size of recharge pits :	3×3×4 mt
	Budgetary allocation (Capital cost) :	Rs.45 Lacs (approx.)
	Budgetary allocation (O & M cost) :	Rs.0.90 Lacs per annum(approx.)
	Details of UGT tanks if any :	Residential: Domestic UG tankCapacity:723m3 Flushing UG tank Capacity: 280m3 Fire UG tank Capacity: 550m3 Commercial: Amenity Domestic UG tankCapacity:14 KLD Flushing UG tank Capacity: 12 KLD Fire UG tank Capacity: Included in residential
35.Storm water drainage	**Natural water drainage pattern:**	South to North West
	Quantity of storm water:	24 m3/min
	Size of SWD:	Internal storm water 900 mm wide.
Sewage and Waste water	**Sewage generation in KLD:**	Residential: 606.00 KLD; Commercial:18.00 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	Residential: 1 x 650 KLD; Commercial: 1x 20 KLD
	Location & area of the STP:	Residential: • Total area provided : 301 m2 • Location of STP: Near Building J; Commercial: • Total area provided : 41 m2 • Location of STP: Near Building A
	Budgetary allocation (Capital cost):	STP 1-650 KLD: Rs.90 lakhs STP -20 KLD: Rs. 27 Lakhs
	Budgetary allocation (O & M cost):	STP 1: Rs. 21.29 Lakhs annually STP 2: Rs. 5.61 Lakhs annually

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Used for land levelling
Waste generation in the operation Phase:	**Dry waste:**	Residential: 687 Kg/day; Commercial: 34 Kg/day
	Wet waste:	Residential: 1605 Kg/day; Commercial: 80 Kg/day
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	STP sludge: 128 kg/day (Residential and Commercial

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Mode of Disposal of waste:	**Dry waste:**	Will be handed over to SWACH
	Wet waste:	Treated in Samruddhi OWC (2 no.)
	Hazardous waste:	--
	Biomedical waste (If applicable):	--
	STP Sludge (Dry sludge):	--
	Others if any:	--
Area requirement:	**Location(s):**	OWC 1-1825 kg/d: Near Building H OWC 2- 105 kg/d:Near Building A
	Area for the storage of waste & other material:	OWC 1 :180 m2 OWC 2: 12 m2
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	OWC 1 :Capital Cost: Rs. 21.50 lakhs ; OWC 2: Capital Cost: Rs. 6.25
	O & M cost:	OWC 1: Rs. 9 Lakhs per annum Rs. 5.75 lakhs/annum+3.25 lakhs (collection); OWC 2: Rs. 1.25 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

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43.Green Belt Development	**Total RG area :**	RG on the ground (sq.m.) : 4229.60 m2 • RG on the podium (sq.m.) : 3518 m2
	No of trees to be cut :	--
	Number of trees to be planted :	389
	List of proposed native trees :	Attached
	Timeline for completion of plantation :	Throughout constructiojn

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	attcahed	attached	attached
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	attached	attached

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	--
	DG set as Power back-up during construction phase	--
	During Operation phase (Connected load):	4379 KW
	During Operation phase (Demand load):	3892.4 KVA
	Transformer:	--
	DG set as Power back-up during operation phase:	residential buildings : 2 no. of 200 kVA; commercial buildings: 1 no. of 62.5 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	--

48.Energy saving by non-conventional method:

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Solar water heating systems will be done for bathrooms.
• Solar lights will be provided for common amenities like Street lighting & Garden lighting.
• CFL & LED based lighting will be done in the common areas, landscape areas, signage's, entry gates and boundary compound walls etc.
• uto Timer switches will be provided for Street lights, Garden lights, Parking & staircase Lights & other common area Lights, for saving electrical energy.
• Water level controllers with timers will be used for Water pumps.
• To create awareness to end consumer or flat owner, for using energy efficient light fittings like CFL, T5 Lamps & LED lights.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	45.97%

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. Rs 137.90 Lacks
	O & M cost:	Rs 2.97 Lacks annually

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water For Dust Suppression	0.64
2	Air Environment	Air & Noise monitoring	1.34
3	Water Environment	Tanker water for construction	1.60
4	Water Environment	Water monitoring	0.42
5	Biological Environment	gardening	13.25
6	Energy Conservation	CFL lamps for labor hutments;LPG	1.30
7	Socio- Economic Environment	Safety	24.36

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	2 Nos.	STP1:90.00 L; STP 2; 27.00 L	STP1:1.77 L; STP 2; 0.47 L
2	Rain Water Harvesting	15 Recharge Pits	45.00	0.90
3	Environmental Monitoring	--	--	15.47
4	Gardening	--	125.00	42.00
5	Solid waste	--	OWC 1:6.25; OWC 2;21.50	OWC 1:1.25 OWC 2;9.00
6	Solar Water Heater	--	97.70	1.90

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	--
Parking details:	**Number and area of basement:**	--
	Number and area of podia:	--
	Total Parking area:	24,865.80 m2
	Area per car:	Stilt:30.00; Open:25.00
	Area per car:	Stilt:30.00; Open:25.00
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	547 Nos.
	Public Transport:	--
	Width of all Internal roads (m):	Internal road 12m wide and 6m wide driveway
	CRZ/ RRZ clearance obtain, if any:	na
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	--
	Category as per schedule of EIA Notification sheet	--
	Court cases pending if any	Yes Criminal case was filled under section 15 r.w. Section of 16 of EPA, 1986 in the court of Judicial Magistrate Fist class at Pune on 21st January,2015 by MPCB (Court case no. : RCC No. 241/2015)

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	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-06-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

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PP submitted his application for prior Environmental clearance for total plot area of 46614 m2, FSI area of 52894.45 m2, Non FSI area of 55506.58 m2 and total BUA of 108401 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. PP to submit details of permissions granted by State Government in tabular and chronological form. Comparative statement of components approved and components constructed till date and proposed development.

2. The Committee decided to obtain site visit report from Maharashtra Pollution Control Board incorporating detailed on site environmental status report.

3. PP to submit revised plantation plan incorporating local native fruit bearing trees.

PP requested for time to submit the information sought; after deliberations committee asked PP to ***comply*** *with the observations and submit information to the committee for further discussion and consideration of SEAC.*

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Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

92nd SEAC-3 Day 02

SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for Residential project Felicita at Baner Pune by Abhiraj Developers and Shree Venkatesh Builders and Developers

Is a Violation Case: Yes

1.Name of Project	Residential project Felicita
2.Type of institution	Private
3.Name of Project Proponent	Shree Venkatesh Builders and Developers and Abhiraj Developers
4.Name of Consultant	Mahabal Enviro Engineers Pvt. Ltd.
5.Type of project	Housing Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Survey No 5/2/2 of Village Baner
9.Taluka	Haveli
10.Village	Baner
Correspondence Name:	Arun Babanrao Nimhan and Abhijeet Kedari
Room Number:	440/2
Floor:	-
Building Name:	Induban
Road/Street Name:	Gokhale Road
Locality:	Gokhale Road
City:	Pune 411015
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Approval No. CC/4520/06 dated 26/03/2007. DPO/PLUI/0021/09/1396 dated 09.04.2009. DPO/0572/10/1456 dated 21.05.2010. DPO/CC/1800/11/1563 dated 18.08.2011. CC/2279/15 dated 20.10.2015. CC/2981/16 dated 23.12.2016
	IOD/IOA/Concession/Plan Approval Number: Approval No. CC/4520/06 dated 26/03/2007. DPO/PLUI/0021/09/1396 dated 09.04.2009. DPO/0572/10/1456 dated 21.05.2010. DPO/CC/1800/11/1563 dated 18.08.2011. CC/2279/15 dated 20.10.2015. CC/2981/16 dated 23.12.2016
	Approved Built-up Area: 26899.80
13.Note on the initiated work (If applicable)	Constructed area as of today : FSI Area : 13043.53 m2 Non FSI : 13856.17 m2 Total Construction Area: 26899.80 m2. The construction was started on site as per the approval received form Pune Municipal Corporation vide no. CC/4520/06 dated 26.03.2007 for plot area of 12150 m2 and BUA of 8012.30 m2 and subsequent approvals. As per the MoEF&CC OM F. No. 22-35/2017-IA-III dt. 07.07.2017, the BUA of corporation is to be considered for the approvals granted prior to 04.04.2011 notification. Therefore we feel it is not a violation case
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	12150 m2
16.Deductions	1466.90 m2
17.Net Plot area	10683.10 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 15145.54 m2
	b) Non FSI area (sq. m.): 18910.98 m2
	c) Total BUA area (sq. m.): 34056.52
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 13043.53 m2
	Approved Non FSI area (sq. m.): 13856.17 m2
	Date of Approval: 26-03-2007
19.Total ground coverage (m2)	5233.25 m2

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20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	59.145%
21.Estimated cost of the project	570000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	LP+UP+11F	32 m
2	Wing B	LP+UP+11F	32 m
3	Wing C	LP+UP+11F	32 m
4	Wing D	LP+UP+11F	32 m
5	Wing E	LP+UP+11 F	22 m
6	Wing F	LP+UP+11 F	22 m
7	Club House	Ground	4.2 m

23.Number of tenants and shops	164 Nos.
24.Number of expected residents / users	820 No
25.Tenant density per hectare	52 tenements per hectare
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.00 mt wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 mt
29.Existing structure (s) if any	No existing structure present prior to start of construction
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PMC
	Fresh water (CMD):	113.3 KLD
	Recycled water - Flushing (CMD):	7.4 KLD
	Recycled water - Gardening (CMD):	7.3 KLD
	Swimming pool make up (Cum):	5.00 KLD
	Total Water Requirement (CMD) :	128 KLD
	Fire fighting - Underground water tank(CMD):	300 m3
	Fire fighting - Overhead water tank(CMD):	20000 liter per building
	Excess treated water	89.4 KLD
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	113.3 KLD
	Recycled water - Flushing (CMD):	7.4 KLD
	Recycled water - Gardening (CMD):	-
	Swimming pool make up (Cum):	5.00 KLD
	Total Water Requirement (CMD) :	128 KLD
	Fire fighting - Underground water tank(CMD):	300 m3
	Fire fighting - Overhead water tank(CMD):	20000 liter per building
	Excess treated water	96.7 KLD
Details of Swimming pool (If any)	Yes	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre monsoon level : 18 to 20 mt bgl, Post monsoon level : 3 to 4 mt bgl
	Size and no of RWH tank(s) and Quantity:	Nil
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5 Numbers: 3 complete and 2 proposed
	Size of recharge pits :	2 pits : 3mt x 1mt x 1mt - complete. 1 pit : 2mt x 1mt x 1mt - complete. 2 pits : 2mt x 2mt x 3mt - proposed
	Budgetary allocation (Capital cost) :	Rs. 6.0 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.75 Lakh/year
	Details of UGT tanks if any :	Total UGT capacity : 527.02 m3 Utility Water : 170 cu.mt Drinking water : 9.00 cu.mt Recycled water : 22 cu.mt Fire Fighting tank : 300.cu.mt Raw Water : 25 cu.mt UGT size: 195 sq.mt
35.Storm water drainage	**Natural water drainage pattern:**	The natural slope of the area is towards East Side
	Quantity of storm water:	0.21 m3/ sec
	Size of SWD:	600 mm dia pipe
Sewage and Waste water	**Sewage generation in KLD:**	104 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	1 STP of 110 KLD
	Location & area of the STP:	South East of Proposed Plot Area : 65.00 sq.mt
	Budgetary allocation (Capital cost):	Rs. 30.00 Lakhs
	Budgetary allocation (O & M cost):	Rs. 10.00 Lakhs/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Labour waste generation is as follows : Bio-degradable waste : 30 kg/day Non bio-degradable waste : 20 kg/day Total waste generated: 50 kg/day
	Disposal of the construction waste debris:	Construction debris during construction phase will be utilized in adjacent plot for land leveling. Materials such as steel, aluminum scrap, glass scrap will be given to authorized recyclers for recycling.
Waste generation in the operation Phase:	**Dry waste:**	164 kg/day
	Wet waste:	246 kg/day
	Hazardous waste:	-
	Biomedical waste (If applicable):	-
	STP Sludge (Dry sludge):	23 kg/day
	Others if any:	-

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Mode of Disposal of waste:	**Dry waste:**	The recyclable waste will be handed over to the authorized vendor. The inert will be disposed off through PMC collection vehicles.
	Wet waste:	Wet waste will be treated partly by Vermicomposting method and partly by mechanical composting
	Hazardous waste:	-
	Biomedical waste (If applicable):	-
	STP Sludge (Dry sludge):	STP Sludge will be used as manure on site
	Others if any:	-
Area requirement:	**Location(s):**	Existing Vermicomposting pit : South Side and North-West corner of plot OWC: South-side of plot
	Area for the storage of waste & other material:	50.00 m2
	Area for machinery:	Vermicomposting pit area : 4 x 4 x 3 ft Depth per pit, 14 pits are constructed, OWC : 6.00 mt x 3.00 mt
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 10 Lakhs
	O & M cost:	Rs. 8.0 lakhs/annum

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	1068.32 m2
	No of trees to be cut :	0
	Number of trees to be planted :	134, Currently 96 trees have been planted on site & 4 trees are retrained, 34 trees have to be still planted
	List of proposed native trees :	As mentioned below
	Timeline for completion of plantation :	100 trees are existing on site and 34 trees will be planted before completion of the building D

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	Aamba	10 nos.	Fruit Bearing tree
2	Syzygium cumini	Jambhul	10 nos.	Fruit Bearing tree
3	Azadirachta Indica	Kadunimba	10 nos.	Butterfly host plant
4	Saraca Indica	Sita Ashok	6 nos.	Shady tree with red-yellow flowers.
5	Pongamia pinnata	Karanj	6 nos.	Shady tree.
6	Bauhinia	Kanchan	19 nos.	A flowering tree
7	Ficus elastica	Rabar	17 nos.	Medicinal Plant
8	Cocos nucifera	Coconut (Naral)	2 nos.	Fruit Bearing tree
9	Ficus Racemosa	Umbar	2 nos.	Fruit Bearing tree
10	Plumeria Alba	Chafa	25 nos.	Medium sized evergreen tree, fragrant white flowers, Butterfly host plant
11	Arecaceae Palmae	Palm	11 nos.	Ornamental plant
12	Caryota mitis	Fish Tail Palm	14 nos.	Used in ropes, Brushes & Baskets
13	Alstonia Scholaris	Saptaparni	2 nos.	Evergreen tree, Useful herb for the treatment of fevers, catarrhal dyspepsia, diarrhea, dysentery and Skin disorders.
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	40.00 KW
	DG set as Power back-up during construction phase	1 DG Set of 125 KVA
	During Operation phase (Connected load):	1208 KW
	During Operation phase (Demand load):	561.20 KW
	Transformer:	Transformer 1 : 630 KVA, Transformer 2 : 630 KVA
	DG set as Power back-up during operation phase:	1 DG Set of 125 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Solar Water Heater System for Hot water requirement of 20500 liters, Solar Street Lights

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• T5 lights/CFL Lights in common areas • Energy efficient lift for Wing D • Energy efficient pumps • Solar water Heater System • Solar Street lighting in landscape area	20.3%

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 Lakh
	O & M cost:	Rs.1 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water spray for dust suppression	-	3
2	Site sanitation Facility and its maintenance	-	4
3	Potable Water Supply to Labour	-	3

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4	Safety Personal Protective Equipment (Helmets, Safety Shoes, Safety Belt, Googles, Hand Gloves etc.)	-	6
5	Health check-up & first aid	-	2
6	Solid waste management	-	4
7	Safety nets	-	5
8	Disinfection	-	2.5
9	Environmental Monitoring	-	2
10	Total	-	31.5

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	-	6.0	0.75
2	Sewage Treatment Plant	-	30.0	10.0
3	Mechanical composting /Vermi Composting	-	10	8
4	Solar System	-	20	1
5	Landscaping	-	8.0	1.5
6	Environment Monitoring	-	-	2.0
7	Total	-	74.0	23.25

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:	-

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Parking details:	**Number and area of basement:**	Lower parking floor : 4301.95 m2
	Number and area of podia:	2 parking levels, Lower parking floor and Upper Parking floor 2515.78 m2
	Total Parking area:	5460 m2
	Area per car:	28.6 m2
	Area per car:	28.6 m2
	Number of 2-Wheelers as approved by competent authority:	328 Nos.
	Number of 4-Wheelers as approved by competent authority:	164 Nos.
	Public Transport:	-
	Width of all Internal roads (m):	Minimum 6.00 mt wide drive-ways
	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	Nil
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-01-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 12150 m2, FSI area of 15145.54 m2, Non FSI area of 1891098 m2 and total BUA of 34056.52 m2.

The proposal is considered under category 8(a)B2. The PP was issued Terms of Reference for preparation of EIA report and Environment Management Plan in 85th meeting of SEAC-3.

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DECISION OF SEAC

*SEAC decided to **defer** the proposal as the EIA report was not received by the Committee. The proposal will be considered after receipt of the same.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

92nd SEAC-3 Day 02

SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for Amendment in / Expansion Residential Cum Commercial Project " Nandan Prospera, Nandan Prospera Gold, Nandan Acura, Nandan Fortura and B5 Building"

Is a Violation Case: No

1.Name of Project	" Nandan Prospera, Nandan Prospera Gold, Nandan Acura, Nandan Fortura and B5 Building" By M/s. Nandan Associates
2.Type of institution	Private
3.Name of Project Proponent	M/s. Nandan Associates
4.Name of Consultant	Building Environment (India) Pvt. Ltd.
5.Type of project	Housing & Commercial Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes, PP has obtained EC letter dated 01.06.2018 vide letter Number SEIAA-EC0000000329
8.Location of the project	S. No. 22/1+2+3(P) +5 (P) + 6(P), Balewadi, Pune: 411045
9.Taluka	Haveli
10.Village	Balewadi
Correspondence Name:	Mr. Makarand Shingawade
Room Number:	Office No.406 & 407
Floor:	4th
Building Name:	Amar Business Park
Road/Street Name:	Baner Road, Near Sadanand Estate
Locality:	Baner
City:	Pune - 411045
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation [PMC]
12.IOD/IOA/Concession/Plan Approval Number	PP has sanctioned plan dated 04.06.2019 from Pune Municipal Corporation IOD/IOA/Concession/Plan Approval Number: CC/0491/19 Dated 04.06.2019 Approved Built-up Area: 45265.06m2
	IOD/IOA/Concession/Plan Approval Number: CC/0491/19 Dated 04.06.2019
	Approved Built-up Area: 45552.71
13.Note on the initiated work (If applicable)	5 Residential Building are already constructed on site namely A1,A2,A3,A4,B2[P+7], and B1, B3, B4 are partially constructed with Total BUA of 76407.72m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	35271.00m2
16.Deductions	12154.16
17.Net Plot area	23116.84
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 45552.71 [45265.06 + 287.65 - Club House]
	b) Non FSI area (sq. m.): 37655.65m2
	c) Total BUA area (sq. m.): 83208.36
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 45552.71 [45265.06 + 287.65 - Club House]
	Approved Non FSI area (sq. m.): 37655.65
	Date of Approval: 04-06-2019
19.Total ground coverage (m2)	10531.23
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	45.55% (Of Net Plot Area)
21.Estimated cost of the project	983390000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A1	P+16	49.95
2	Building A2	P+16	49.95
3	Building A3	P+16	49.95
4	Building A4	P+16	49.95
5	Building B1	P+7+1(Proposed)	25.80
6	Building B2	P+7	22.95
7	Building B3	P+UP+16	55.98
8	Building B4	P+UP+16	55.98
9	Building B5	G + 1	10
10	Building B6 [Commercial Building]	B+G+ Mezzanine +02	14.40

23.Number of tenants and shops	Flats: 557; Multipurpose Hall, Gym Shops: 14 and office :02
24.Number of expected residents / users	Residential: 2741 Commercial: 320 Total: 3061
25.Tenant density per hectare	250 As per approved layout - 356 Tenements 400 As per Approved Layout - 201 Tenements
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 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	5 Residential Building are already constructed on site namely A1,A2,A3,A4,B2[P+7], and B1 (Partially completed up to 7th Floor out of 8 floors and B3, B4 are under construction with Total BUA of 76407.72m2
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Not applicable as it is a Residential Building	Not applicable as it is a Residential Building	Not applicable as it is a Residential Building	Not applicable as it is a Residential Building

32.Total Water Requirement

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Dry season:	**Source of water**	PMC/ Recycled Water
	Fresh water (CMD):	261.99
	Recycled water - Flushing (CMD):	131.35
	Recycled water - Gardening (CMD):	42.23
	Swimming pool make up (Cum):	8.9
	Total Water Requirement (CMD) :	435.57
	Fire fighting - Underground water tank(CMD):	750.00
	Fire fighting - Overhead water tank(CMD):	160.00
	Excess treated water	157.84
Wet season:	**Source of water**	PMC/ Recycled Water
	Fresh water (CMD):	261.99
	Recycled water - Flushing (CMD):	131.35
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	8.9
	Total Water Requirement (CMD) :	393.34
	Fire fighting - Underground water tank(CMD):	750.00
	Fire fighting - Overhead water tank(CMD):	160.00
	Excess treated water	200.07
Details of Swimming pool (If any)	PP has proposed a 2 swimming pool of 198 capacity each	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	258.71	3.28	261.99	51.74	0.65	52.39	202.96	24.82	227.78
Gardening	34.00	8.23	42.23	0	0	0	0	0	0
Domestic	374.4	10.04	384.44	74.64	2.29	76.93	299.70	31.71	331.41

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	60m
	Size and no of RWH tank(s) and Quantity:	No RHW Tank is proposed for storage of Rain Water Harvesting, Harvested water shall be used for ground water recharge
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	31
	Size of recharge pits :	1.5*1.5*1.5
	Budgetary allocation (Capital cost) :	350000
	Budgetary allocation (O & M cost) :	45000
	Details of UGT tanks if any :	PP has provided separate UGT of 186.5 m3
35.Storm water drainage	**Natural water drainage pattern:**	Yes
	Quantity of storm water:	8676.33m3/Year
	Size of SWD:	450-500 mm
Sewage and Waste water	**Sewage generation in KLD:**	311.7
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	Total 3 STP- 140 m3/day, 120 m3/day, 100 m3/day, 12m3/day
	Location & area of the STP:	Beside Building B1 & B6 and Area (69m2, 52m2, 60m2 & 15m2)
	Budgetary allocation (Capital cost):	6600000
	Budgetary allocation (O & M cost):	675000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	• Excavation of Top Soil: 594Cum • Excavation in Hard Murrum: 11308.4Cum • Total Excavation: 11902Cum • Garden Filling: 594Cum • Back / Plinth Filling & Rubber Soling Qty: 11308.4Cum Domestic Waste: 42.5kg
	Disposal of the construction waste debris:	• The domestic solid waste will be collected, segregated and handed over to authorized vendors. The entire construction waste will be used within site for levelling purpose
Waste generation in the operation Phase:	**Dry waste:**	722.2 Kg/day
	Wet waste:	1043.3Kg/day
	Hazardous waste:	100 lit/A
	Biomedical waste (If applicable):	0
	STP Sludge (Dry sludge):	31.56
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized Recycler for further handling & disposal purpose
	Wet waste:	Treated in Organic Waste Convertor
	Hazardous waste:	Authorized re-processor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used for manure within gardening purpose or will be disposed off as per CPEEHO manual on Sewerage & Sewage Treatment System, 2013
	Others if any:	NA
Area requirement:	**Location(s):**	OWC: Near A1, B1, B2, B3 & B6
	Area for the storage of waste & other material:	28m2
	Area for machinery:	83m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	28250000
	O & M cost:	460000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	7.0-8.0	7.5	7.0-8.0
2	Suspended Solids	mg/l	400	<10	100
3	Chemical Oxygen Demand	mg/l	350-400	20-30	250
4	Biochemical Oxygen Demand	mg/l	300	10	30
5	Oil and Grease	mg/l	25-30	10	<10
6	Total Dissolved Solid	mg/j	1000-1100	<1100	2100

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/Waste Oil	5.1	Lt/A	60	40	100	Authorized re-processor

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	250KVA	Diesel - 56LPH	1	3.1	0.15	72

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2	320KVA	Diesel - 65LPH	1	3.0	0.15	72
3	180KVA	Diesel - 35LPH	1	3.0	0.11	80
4	125KVA	Diesel - 23LPH	1	2.5	0.11	76
5	25KVA	Diesel - 5LPH	1	1.0	0.11	65

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	147.31	36.62	184.00
41.Source of Fuel		Market		
42.Mode of Transportation of fuel to site		By Tanker		

43.Green Belt Development	**Total RG area :**	8446.21m2
	No of trees to be cut :	0
	Number of trees to be planted :	Existing – 200 Nos.; Proposed -150 Nos.
	List of proposed native trees :	Listed below
	Timeline for completion of plantation :	Shall complete within 1-2 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azardicta Indica	Neem	42	Large size handy tree drought conditions. Medicincal Value
2	Sarca Indica	Sita Ashoka	23	Small tree with dense follage provides shades and attract variety of birds dur to red flower
3	Millingtonia Hortensis	Indian Cork Tree	16	A columnar ever green tree, grow well in both dry and moist conditions
4	Khaya Senghals	Khaya	15	Medicinal Value/ Value for timber
5	Jacaranda Mimoslfolla	Jacaranda	6	Mdeium size gracious flowering tree which prefers moderate climate. Medicinal and ornamental value
6	Ailanthus Excelsa	Maharukh	10	Large tree, good or road side plantation, common in most hotter part
7	Spathodia Campanulta	Pihkari	10	Ornamental and Medicinal Value
8	Lagerstromia Flos - regineae	Tamhan	10	State flower of Maharashtra, medium sized tree, grows well in both wet and dry season
9	Butea Monosperma	Palas	7	Small deciduous, good for road side plantation , ornamental value
10	Mimusops Elengi	Bakul	30	Medium size evergreen tree with strong fragnace flower
11	Terminialia Catappa	Badam	5	Tall decidious , fruit bearing tree
12	Casia Fistula	Bahava	24	Ornamental - flowering plant

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13	Plumeria Alba	Champa	31	Ornamental Flower bearing tree
14	Michella Champaca	Sonchapa	32	Ornamental and Medicinal Value
15	Khaya grandis	Mohogani	24	Fruit bearing with medicinal value
16	Pterospermun acerifolium	Dinner Plate Tree	7	Ornamental and Medicinal Value
17	Anthocephalms cadamba	Kadamb	7	Ornamental and Medicinal Value
18	Ficus hispida	kala umbar	4	Fruit bearing with medicinal value
19	Drypetes roxburghii	Putranjiva	6	Large tree with Medicinal Value
20	Schleichera oleosa	Kusumb	9	Large tree with Medicinal Value
21	Ficus religiosa	Peepal	6	Large tree with Medicinal Value
22	Nyctanthes arbor tristis	Prajakta	10	Small ornamental tree
23	Bauhinia racemosa	Apta	16	Small tree with Medicinal 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	Raphls palm	0.6m	--
2	Philodendron	0.6m	--
3	Allamanda yellow	0.45m	--
4	Schffelera	0.30m	--
5	Plumbago	0.3m	--
6	Ixora singaporemsis	0.3m	--
7	Asparagus sprengerl	0.15m	--
8	Lantana	0.15m	--

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	64KVA
	DG set as Power back-up during construction phase	87.5KVA
	During Operation phase (Connected load):	3630KVA
	During Operation phase (Demand load):	2691KVA
	Transformer:	630KVA - 4 Nos.315KVA - 1 No
	DG set as Power back-up during operation phase:	250KVA x 1 No., 320KVA x 1 No., 180KVA x 1 No., 125 KVA X 1 No & 25KVA x 1 No.
	Fuel used:	Diesel - 184LPH
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

- PP has installed solar water heating system for all Residential Building
- Energy Efficient pump Common Areas are lightened with LED bulbs
- PP has provided timer for Staircase Lighting, Lift Lobby, Parking Area and Street Lights
- PP has proposed to provide 7KW Solar PV Facility for commercial building

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	• PP has installed solar water heating system for all Residential Building • Energy Efficient pump Common Areas are lightened with LED bulbs • PP has provided timer for Staircase Lighting, Lift Lobby, Parking Area and Street Lights • PP has proposed to provide 7KW Solar PV Facility for commercial building	35.22% for Existing & 10% for Proposed development

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG Set	Use of Low sulphur fuel, adequate stack height	Use of Low sulphur fuel, adequate stack height

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1295000
	O & M cost:	65000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water Environment	Water for Dust Suppression	1.2
2	Safety	Site Sanitation & Safety	0.5

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3	Environmental Monitoring	Environmental monitoring for water, air, soil & noise	1.5
4	Water Environment	Disinfection	0.2
5	Health & Labour Welfare	Health Check up of employees	0.3

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	Rain Water Harvesting	3.5	0.45
2	Sewage Treatment Plant	Treatment of Waste water	66	6.75
3	Solid waste environment	Treatment of Waste generated	28.25	4.60
4	Landscape & green belt developement	Cost for Tree Plantation	21.11	1.69
5	Energy Conservation	Energy Saving measures	12.95	0.65
6	Environment Monitoring	Environmental monitoring for water, air, soil & noise	0.0	3.0
7	Water Environment	Laying of Storm & Sewer Line	2.5	0.45

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1

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Parking details:	**Number and area of basement:**	Number of Basement No. 1 526.38m2 (Including Ramp area)
	Number and area of podia:	Number of Podium: 2 Nos. Area: 12578.99 m2
	Total Parking area:	10817.00m2
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	2158 = 1099+1059 [Bicycle + Scooter]
	Number of 4-Wheelers as approved by competent authority:	626
	Public Transport:	Available outside Project Premises
	Width of all Internal roads (m):	Average 6
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 33771 m2, FSI area of 43733.07 m2, Non FSI area of 34150.46 m2 and total BUA of 77883.53 m2.

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

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DECISION OF SEAC

During discussion following points emerged:

1. PP to obtain final fire NOC for buildings B1, B3 and B4.

*SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the above condition.*

Specific Conditions by SEAC:

1) PP to obtain final fire NOC for buildings B1, B3 and B4.

FINAL RECOMMENDATION

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

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92nd SEAC-3 Day 02

SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for proposed "Hill Station" at Villages- Mulshi (Khurd), Warak, Vegre & Lawarde; Taluka- Mulshi; District-Pune; State – Maharashtra by Aqualand (India) Ltd.

Is a Violation Case: No

1.Name of Project	Aqualand (India) Ltd
2.Type of institution	Private
3.Name of Project Proponent	Mr. R. P. Tyagi, Aqualand (India) Ltd
4.Name of Consultant	Dr. D. A. Patil, Mahabal Enviro Engg. Pvt. Ltd.
5.Type of project	"Hill Station" accordance with the "Special Regulations for Development of Townships in Hill Stations" issued by Urban Development Department under Govt. of Maharashtra [No. TPS 1896/1213/CR- 123/96/UD-13, dtd. 26th Nov. 1996]
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	Proposed project is located at Villages- Mulshi (Khurd), Warak, Vegre & Lawarde; Taluka- Mulshi; District-Pune; State – Maharashtra. (Detailed Sr. Nos. are given in Point No. 54 (v))
9.Taluka	Mulshi
10.Village	Mulshi (Khurd), Warak, Vegre & Lawarde
Correspondence Name:	Mr. R. P. Tyagi
Room Number:	Top Floor
Floor:	Top Floor
Building Name:	Times Tower
Road/Street Name:	Kamla City, Senapati Bapat Road
Locality:	Lower Parel (West)
City:	Mumbai
11.Whether in Corporation / Municipal / other area	From Rural area & within jurisdiction of Pune Metropolitan Regional Development Authority (PMRDA)
12.IOD/IOA/Concession/Plan Approval Number	Letter of Intent from Urban Development department, GoM vide No. TPS 1897/517/UD-13 dated 28/3/2003 declaring villages Vegre and Lawarde as suitable for development of hill station. Notifications bearing number (i) Notification No. TPS 1897/517/UD-13 dated 18/1/2003 declaring entire area from villages Vegre and Lawarde as suitable for hill station development , (ii) Notification No TPS 1814/51/CR -64/2014/UD-13 dated 13th May 2016 declaring entire area from Village Mulshi (Khu.) & Warak for
	IOD/IOA/Concession/Plan Approval Number: (i) 63IA(ii)/DI/Land/Permission/353/2006/B24354 dated 27/9/2007 allowing Aqualand to purchase 1633.43 Ha and 384.16 Ha, totaling 2017.59 Ha of land respectively from villages Vegre and Lawarde. & 220 Ha as per order No DI/Permission /53/94/D-6633. (ii) 63IA(ii)/DI/Land/Permission/421(07)/2008/B-37588 dated 30/9/2008 allowing Aqualand to purchase 331.942 Ha and 527.359 Ha of land respectively from villages Mulshi Khurd and Warak.
	Approved Built-up Area: 3044977
13.Note on the initiated work (If applicable)	No work started
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	3,09,58,402.50 m2
16.Deductions	27,07,342.65 m2
17.Net Plot area	2,82,51,059.85 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 45,59,807 m2
	b) Non FSI area (sq. m.): 33,46,989 m2
	c) Total BUA area (sq. m.): 7906796

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18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 17,56,022 m2
	Approved Non FSI area (sq. m.): 12,88,955 m2
	Date of Approval: 09-12-2015
19.Total ground coverage (m2)	1891268 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	6.7
21.Estimated cost of the project	112850000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Residential (6,093 Bldgs.)	G + 1, G + 2	9
2	Commercial (32 Bldgs.)	Ground+2	12
3	Educational (17 Bldgs.)	Ground+2	12
4	Health Care (11Bldgs.)	Ground+2	12
5	Cultural (25 Bldgs.)	Ground+2	12
6	Hotels (Below 3 Star) (18 Bldgs.)	Ground+3	12
7	Hotels (Above 3 Star) (8 Bldgs.)	Ground+4	16
8	Recreational (29 Bldgs.)	Ground	6
9	Service Quarter (565 Bldgs.)	Ground+4	16
10	Note	Stilt floor are proposed for all types of building.	-

23.Number of tenants and shops	Residential & staff Quarters Tenants: 22,625 Nos. No of Shops/Commercial Buildings : 32 Nos
24.Number of expected residents / users	30,5278 Nos.
25.Tenant density per hectare	108/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)	9 m wide
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9 m
29.Existing structure (s) if any	None
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

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1	Not applicable	Not applicable	Not applicable	Not applicable

32.Total Water Requirement

Dry season:	**Source of water**	Water From Temghar Dam /Ground Water
	Fresh water (CMD):	26 MLD
	Recycled water - Flushing (CMD):	11 MLD
	Recycled water - Gardening (CMD):	10 MLD
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	37 MLD
	Fire fighting - Underground water tank(CMD):	2000 KL
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	Nil
Wet season:	**Source of water**	RWH (Incremental Runoff) + Ground Water + Temghar
	Fresh water (CMD):	26 MLD
	Recycled water - Flushing (CMD):	11 MLD
	Recycled water - Gardening (CMD):	Nil
	Swimming pool make up (Cum):	Nil
	Total Water Requirement (CMD) :	37
	Fire fighting - Underground water tank(CMD):	2000 KL
	Fire fighting - Overhead water tank(CMD):	-
	Excess treated water	10 MLD to Artificial Reservoir
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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	25 m - 30 m 1st aquifer lvl
	Size and no of RWH tank(s) and Quantity:	(i) RWH Pond 1- Area: 65527, Quantity: 1933039 m3. (ii) Dyke 2- Area: 207415, Quantity: 4459423 m3. (iii) Dyke 3-Area: 30300, Quantity: 560550 m3. (iv) Dyke 4-Area: 29500, Quantity: 309750 m3.
	Location of the RWH tank(s):	Ground
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	Rs. 81.5 Cr
	Budgetary allocation (O & M cost) :	Rs. 40.8 Cr
	Details of UGT tanks if any :	Location: Underground
35.Storm water drainage	**Natural water drainage pattern:**	The land is undulating and Natural drain will be retain for SWD.
	Quantity of storm water:	46.08 MLD
	Size of SWD:	Natural drain will be retain for SWD & Storm water drain along road are of sizes 0.75 m X 0.75 m, 0.90 m x 0.75 m, 0.9 m x 0.9 m, 1.2 m x 0.9 m, along with cross drain, culverts etc & other detail design for building is as per NBC2016 norms.
Sewage and Waste water	**Sewage generation in KLD:**	31.86 MLD
	STP technology:	MBBR technology
	Capacity of STP (CMD):	10 STP's of total 33.82 MLD capacity (STP 1: 3.6 MLD, STP 2: 0.76 MLD, STP 3: 3 MLD, STP 4: 7.2 MLD, STP 5: 1.1 MLD, STP 6: 4.6 MLD, STP 7: 4 MLD, STP 8: 8 MLD, STP 9: 1.12 MLD & STP 10: 0.44 MLD)
	Location & area of the STP:	On Ground with total area 18,067 m2 (STP 1: 1,120 m2, STP 2: 945 m2, STP 3: 960 m2, STP 4: 5796 m2, STP 5: 1,764 m2, STP 6: 1,296 m2, STP 7: 1,168 m2, STP 8: 2,624 m2, STP 9: 1,764 m2 & STP 10: 630 m2)
	Budgetary allocation (Capital cost):	Rs.18.8 Cr
	Budgetary allocation (O & M cost):	Rs. 0.9 Cr
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris: 2.4 tonne/day & Quantity of top soil to be preserved: 4,77,017 m3
	Disposal of the construction waste debris:	Inert Land fill / Land Leveling
Waste generation in the operation Phase:	**Dry waste:**	72,259 kg/day
	Wet waste:	57,900 kg/day
	Hazardous waste:	Used/waste Oil
	Biomedical waste (If applicable):	350 kg/day
	STP Sludge (Dry sludge):	356 kg/day
	Others if any:	Plastic waste: 1,000 kg/day & E waste: 1,300 kg/day

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Mode of Disposal of waste:	**Dry waste:**	Dry waste will be handed over to authorized vendor
	Wet waste:	Wet waste will be composted by using NISARGRUNA BIOGAS PLANT
	Hazardous waste:	Hazardous waste will be segregated from the collected municipal solid waste and stored at respective sub-phase drop down centre. For waste oil a separate HDPE barrel will be kept at drop down point and timely sent to Authorized Agency Hazardous waste will be handed over to the "Swach Cooperative"– MPCB Authorized Agency
	Biomedical waste (If applicable):	Biomedical Waste will be handle, store, transport and disposed by "Life Secure Enterprises" MPCB Authorized Agency as per the Biomedical (Management and Handling) Rules, 2016.
	STP Sludge (Dry sludge):	On Site Composting / Green Zone Development
	Others if any:	Plastic Waste Compactor Unit will be provided for plastic waste. Compacted plastic then will be handed over to the Swach Cooperative MPCB Authorized agency. E-waste will be segregated from the collected municipal solid waste and stored at respective sub-phase E-waste drop down centre. E waste will be handed over to the "Swach Cooperative" – MPCB Authorized Agency
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	Landfill area provided: 46,500 m2
	Area for machinery:	Biogas Plant capacity: 66 MT & area provided 5900 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 19.34 Cr
	O & M cost:	Rs. 2.58 Cr/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

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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 :**	17, 37,473 Sq. m.
	No of trees to be cut :	81,755 Nos.
	Number of trees to be planted :	11, 39,870 Nos. (Proposed trees to be planted 6,04,262 Nos and Existing trees 535608 Nos.) Total plantation to be maintained 11,39,870 Nos.
	List of proposed native trees :	As below
	Timeline for completion of plantation :	6-7 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Actinodaphne hookerii	Pisa	20,000	Evergreen tree, has medicinal properties
2	Aegle marmelos	Bel	17,000	Evergreen tree, has medicinal properties
3	Artocarpus heterophyllus	Jackfruit	18,000	Fruit tree attracting birds
4	Azadirachta indica	Neem	15,000	Hardy evergreen tree, has medicinal properties
5	Bauhinia variegata	Camels Foot Tree	11,000	It is a small to medium-sized tree and popular ornamental tree.
6	Bombax ceiba	Katesawar	8,000	It is widely planted in parks and on roadsides there because of its beautiful red flowers which bloom in March/April.
7	Bridelia retusa	Asana	8,000	Hardy evergreen tree, has medicinal properties
8	Butea monosperma	Palas	20,500	Hardy evergreen tree, has medicinal properties
9	Careya arborea	Kumbha	12,000	Hardy evergreen tree, has medicinal properties
10	Caryota urens	Bherali Mad	8,000	Caryota urens is cultivated as an ornamental tree, and planted in gardensand parks in tropical and sub-tropical climates. It is also used as an interior and houseplant when smaller.
11	Cassia fistula	Bahava/Amlatas	22,000	The golden shower tree is a medium-sized tree , ornamental plant

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12	Catunaregam spinosa	Gela	7,000	Catunaregam spinosa is a spiny, deciduous shrub or small tree. The rind and fruit have useful emetic, diaphoretic and antispasmodic properties
13	Cordia dichotoma	Bhokar	11,000	The immature fruits are pickled and are also used as a vegetable fodder.
14	Dalbergia latifolia	Shisam	27,000	Sheesham is usually dried before being used in furniture manufacturing, a process commonly known as seasoning
15	Dalbergia sissoo	Shisoo	25,000	The bark is used in traditional medicine in India, to treat diarrhoea, indigestion and leprosy, and as a vermifuge
16	Dendrocalamus strictus	Bamboo	18,000	The stems are used for a wide range of purposes - scaffolding, bridges, poles, agricultural implements and other large bamboo implements
17	Emblica officinalis	Awala	17,262	Hardy evergreen tree, has medicinal properties
18	Erythrina indica	Pangara/Coral Tree	12,000	Medium sized deciduous tree. Bright scarlet flowers.
19	Erythrina stricta	Pangara	9,000	Medium sized deciduous tree. Bright scarlet flowers.
20	Ficus amplissima	Pipar	21,000	shady tree
21	Ficus arnottiana	Payar	15,000	shady tree
22	Ficus benghalensis	Banyan	25,000	shady tree
23	Ficus racemosa	Umbar	19,000	Hardy evergreen tree, has medicinal properties
24	Ficus religiosa	Pipal	25,000	shady tree
25	Firmiana colorata	Kaushi	8,000	medium-sized shady tree
26	Gmelina arborea	Shivan	8,000	medium-sized shady tree
27	Grewia tiliifolia	Dhaman	11,000	shady tree
28	Heterophragma quadriloculare	Waras	12,000	Medium sized deciduous tree, Beautiful white flowers and Butterfly host plant
29	Lagerstroemia microcarpa	Nana	8,000	Medium sized deciduous tree, Beautiful white flowers and Butterfly host plant
30	Macaranga peltata	Chandava	15,000	large shady tree
31	Madhuca latifolia	Mahua	8,000	Hardy evergreen tree, has medicinal properties
32	Mangifera indica	Mango	19,500	Fruit tree attracting birds
33	Memecylon umbellatum	Anjani	6,000	Medium sized deciduous tree, Beautiful blue flowers and Butterfly host plant
34	Mesua ferrea	Nag Chafa	22,500	medium-sized shady tree
35	Mimosops elengi	Bakul	15,000	Hardy evergreen tree, has medicinal properties

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36	Neolamarckia cadamba	Kadamb	5,500	Deciduous tree, large foliage & beautiful tree
37	Pongamia pinnata	Karanj	4,000	Shady tree
38	Sapindus laurifolius	Ritha	12,000	Hardy evergreen tree, has medicinal properties
39	Schleichera oleosa	Kusumb	11,000	Hardy evergreen tree, has medicinal properties
40	Terminalia arjuna	Arjun	11,000	Hardy evergreen tree, has medicinal properties
41	Terminalia bellirica	Beheda	5,000	Hardy evergreen tree, has medicinal properties
42	Terminalia chebula	Hirda	6,000	Hardy evergreen tree, has medicinal properties
43	Terminalia paniculata	Kimjal	6,000	shady tree
44	Trema orientalis	Kharal	8,000	shady tree
45	Wrightia tinctoria	Kala Kuda	12,000	shady tree
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	The TATA power company Ltd.
	During Construction Phase: (Demand Load)	6 MVA
	DG set as Power back-up during construction phase	6 MVA
	During Operation phase (Connected load):	400 MVA
	During Operation phase (Demand load):	264 MVA
	Transformer:	15 x 25 MVA
	DG set as Power back-up during operation phase:	64 x 1000 kVA, 7 x 750 kVA, 15 x 630 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	HT line is passing along surrounding major road & not through plot.

48.Energy saving by non-conventional method:

Solar pV panels of 11.15 MVA capacity
Solar water heater system for Residential Bldgs, Hotels etc.

49.Detail calculations & % of saving:

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

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 50 Cr
	O & M cost:	Rs. 2.5 Cr/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	Debris/Top Soil management	-	250
2	Toilets for labour + drinking water + first aid arrangement	-	195
3	Environmental monitoring	-	180

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Continuous O & M	1880	90
2	Rain Water Harvesting	During rainy season (Cleaning)	8150	820
3	Solid waste Management	Continuous O & M	3024	406
4	Bio Medical Waste Management	Continuous O & M	350	106
5	Landscape	Daily	6120	600
6	Energy Saving Features + Solar Panels	Weekly	5000	250

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

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

52.Any Other Information

No Information Available

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53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	2 Nos.
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	Area of podium: 7,13,883 m2
	Total Parking area:	6,39,889 m2
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	55,865 Nos.
	Number of 4-Wheelers as approved by competent authority:	38,470 Nos.
	Public Transport:	Eco-Friendly, CNG based vehicles are encouraged in the project area.
	Width of all Internal roads (m):	9 m

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.
Solid Waste Management	Satisfactory.
Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.

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Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 3,09,58,402.50 m2, FSI area of 45,59,807 m2, Non FSI area of 33,46,989 m2 and total BUA of 79,06,796 m2.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(b)B1.

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 88th meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for project by M/s Royal Developers

Is a Violation Case: Yes

1.Name of Project	LINERA
2.Type of institution	Private
3.Name of Project Proponent	Mr. Ashok Dhanraj Chordia
4.Name of Consultant	M/s Sneha Hi-Tech Products
5.Type of project	Residential and 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	Survey No. 121, Hissa No. 2/1/1,2/2/1,2/3/1, 2/4 &2/5,
9.Taluka	Mulshi
10.Village	Wakad
Correspondence Name:	Mr. Vilas Tambe
Room Number:	-
Floor:	Level 8
Building Name:	Solitaire World
Road/Street Name:	Mumbai Bangalore Highway
Locality:	Baner
City:	Pune
11.Whether in Corporation / Municipal / other area	Pimpri-Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: B.P./Wakad/05/2016
	Approved Built-up Area: 48282.74
13.Note on the initiated work (If applicable)	33788.62 m2 (FSI Area:12913.67 m2 +NON FSI Area:20874.95 m2)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	16827.00
16.Deductions	5993.02 m2
17.Net Plot area	10833.98 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20221.59 m2
	b) Non FSI area (sq. m.): 30065.67 m2
	c) Total BUA area (sq. m.): 50287.26
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 20581.68 m2
	Approved Non FSI area (sq. m.): 27701.06 m2
	Date of Approval: 30-06-2016
19.Total ground coverage (m2)	2319.60 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	13.78 % of Total plot area(16827 m2) 21.41 % of Net Plot Area (10833.98 m2)
21.Estimated cost of the project	600000000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing - A	B+Stilt+12	40.45 m
2	Wing - B	B+Stilt+12	40.45 m
3	Wing - C	B+Stilt+12	40.45 m
4	Wing - D	B+Stilt+12	40.45 m
5	Wing - E	B1+B2+Stilt+12	42.20 m
6	Wing - F	B1+B2+Stilt+4	21.80 m

23.Number of tenants and shops	Tenements– 282 Nos. No. of Showrooms-4Nos.
24.Number of expected residents / users	Residential Users: 1410 Nos. Commercial Users: 140 Nos. Total Users: 1550 Nos.
25.Tenant density per hectare	167.58 /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)	45 m wide 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	Not Applicable
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	207.05 m3/day (One Time)
	Recycled water - Flushing (CMD):	66.25 m3/day
	Recycled water - Gardening (CMD):	9.00 m3/day
	Swimming pool make up (Cum):	1.40 m3/day
	Total Water Requirement (CMD) :	131.80 m3/day
	Fire fighting - Underground water tank(CMD):	250.00m3
	Fire fighting - Overhead water tank(CMD):	100.00 m3
	Excess treated water	95.32 m3/day
Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	198.05 m3/day (One Time)
	Recycled water - Flushing (CMD):	66.25 m3/day
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	1.40 m3/day
	Total Water Requirement (CMD) :	131.80 m3/day
	Fire fighting - Underground water tank(CMD):	250.00m3
	Fire fighting - Overhead water tank(CMD):	100 m3
	Excess treated water	104.32 m3/day
Details of Swimming pool (If any)	Dimension of Swimming Pool: 25.57m2 x 1.2m water depth Total water Requirement in KLD: 33.77 m3 Water requirement in KLD: 1.40 m3/day Details of Plant & Machinery used for treatment of Swimming pool water: Details of quality to be achieved for swimming pool water and parameters to be monitored: Capital cost: Rs. 12.21 Lakh O & M Cost: Rs. 1.68 Lakh/Year	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	8 to 10 m
	Size and no of RWH tank(s) and Quantity:	Not Applicable
	Location of the RWH tank(s):	Not Applicable
	Quantity of recharge pits:	5 Nos.
	Size of recharge pits :	1.5m x 1.5m x 1.5m
	Budgetary allocation (Capital cost) :	Rs. 10.00 Lakh
	Budgetary allocation (O & M cost) :	Rs. 1.00 Lakh/Year
	Details of UGT tanks if any :	Residential & Commercial : Domestic UG tank Capacity – 197 m3 Flushing UG tank Capacity: -100.3 m3 Fire UG tank Capacity: - 250.00 m3
35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	163 m3/day.
	Size of SWD:	150/200mm dia.
Sewage and Waste water	**Sewage generation in KLD:**	170.57 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 No. – 190 m3/day
	Location & area of the STP:	110 m2
	Budgetary allocation (Capital cost):	Rs.39.00 Lakh
	Budgetary allocation (O & M cost):	Rs. 5.70 Lakh/Year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 Kg/day
	Disposal of the construction waste debris:	Use for Leveling
Waste generation in the operation Phase:	**Dry waste:**	303 kg/day
	Wet waste:	437 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	15.35 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Authorized Vendor
	Wet waste:	Organic Waste Convertor
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Used as manure after treatment in OWC
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	50 m2
	Area for machinery:	Included in other area
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 14.75 Lakh
	O & M cost:	Rs. 3.06 Lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	500 KVA- 01No.	HSD- 40.00 lit./hr.	S-1	2.25 m	-	-

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	40.00 lit./hr.	-	40.00 lit./hr.
41.Source of Fuel		Bharat Petroleum Corporation Limited/ Hindustan Petroleum		
42.Mode of Transportation of fuel to site		By Roadway		

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43.Green Belt Development	**Total RG area :**	1483.20 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	57 Nos.(Proposed) + 155 Nos.(Already Planted)
	List of proposed native trees :	57 Nos.(Proposed) + 155 Nos.(Already Planted)
	Timeline for completion of plantation :	Before Completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Areca catechu	Supari palm	12	Native, Hardy, Fruit bearing, Attracts birds, insects and squirrels
2	Plumeria rubra	Deochapha	15	Flowering, Fast growing, Hardy
3	Cassia fistula	Bahava	10	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
4	Putranjiva roxburghii	Putranjiva	10	Evergreen, Native ,Medicinal value, Drought Resistant
5	Messua ferrea	Nag chafa	10	Native, Fragrant flowers, Attracts insects
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	93.19 KW
	DG set as Power back-up during construction phase	62.5 KVA – 1 Nos.
	During Operation phase (Connected load):	1260 KW
	During Operation phase (Demand load):	915.31 KW
	Transformer:	02 Nos. x 630 KVA
	DG set as Power back-up during operation phase:	01No.- 500 KVA
	Fuel used:	40.00 lit./hr.
	Details of high tension line passing through the plot if any:	Yes

48.Energy saving by non-conventional method:

- Maximum use of daylight in tenements area by providing appropriate window sizing
- Use of Energy efficient LED lamps in all public/ common areas.
- Optimum building orientation
- Use of energy efficient devices
- Daylight cum occupancy sensors in parking area lighting
- Timer control external lighting
- Solar powered water heating for all tenements

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Common area / external lighting on timers	2%
2	Use of LED lamps in common area	8%
3	Group control for elevators	1.5%
4	Total Energy Saving	15 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	We have provided Part green belt .	-
Water	We have installed STP of capacity 190 KLD for Existing& proposed phase & excess treated water used for flushing & gardening	-
Noise	Acoustically enclosed DG set is installed.Noise monitoring is carried out.	Traffic management plan to be prepared.
Solid Waste	Wet waste & dry waste of existing phase is handed over to PCMC.	Wet waste will be treated in OWC. STP sludge will be used as manure after treatment in OWC dry waste will be given to authorized vendor

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

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51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environment	Water for Dust Suppression, Air& Noise Monitoring	0.50
2	Water Environment	Tanker Water for Construction, Water Monitoring	0.50
3	Land Environment	Site Sanitation- Mobile toilets	0.50
4	Socio Economic	Disinfection- Pest Control, First Aid Facilities, Health Check Up, Creches for Children, Food for children, Personal Protective Equipment	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	STP	Sewage Treatment Plant	39.00 Lakh	5.70 Lakh/year
2	RWH	Rainwater Harvesting	10.00 Lakh	1.00 Lakh/year
3	MSW(OWC)	Organic Waste Converter	14.75 Lakh	3.06 Lakh/year
4	Energy System	-	30.00 Lakh	1.50 Lakh/year
5	Landscaping	-	15.55 Lakh	1.04 Lakh/year
6	Swimming Pool	-	12.21 Lakh	1.68 Lakh/year
7	Alternate Water Supply	-	-	12.48 Lakh/year
8	Safety Equipment's	-	10.00 Lakh	2.00 Lakh/year
9	Post EC Monitoring	-	-	2.50 Lakh/year
10	Dry Waste Management	-	-	1.69 Lakh/year

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

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

52.Any Other Information

No Information Available

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53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	5122.44 m2
	Number and area of podia:	NA
	Total Parking area:	9344.66 m2
	Area per car:	For Basement Parking- 35 m2, For Covered Parking- 30 m2
	Area per car:	For Basement Parking- 35 m2, For Covered Parking- 30 m2
	Number of 2-Wheelers as approved by competent authority:	624 Nos.
	Number of 4-Wheelers as approved by competent authority:	202 Nos.
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	7.5 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8(a)
	Court cases pending if any	No.
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 16827 m2, FSI area of 20221.59 m2, Non FSI area of 30065.67 m2 and total BUA of 50287.26 m2.

The proposal is considered under category 8(a)B2. The PP was issued Terms of Reference for preparation of EIA report and Environment Management Plan in 88th meeting of SEAC-3.

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DECISION OF SEAC

*SEAC decided to **defer** the proposal as the EIA report was not received by the Committee. The proposal will be considered after receipt of the same.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

92nd SEAC-3 Day 02

SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for Proposed Residential & Commercial project at S. no. 36/2B/4, 36/2B/21, 36/2A/11, 36/2B/20, 36/2A/9, 36/2A/8, 36/2B/19, Mundhwa, Pune by M/s. Shree Sharan Infrastructure

Is a Violation Case: No

1.Name of Project	Proposed Residential & Commercial project at S. no. 36/2B/4, 36/2B/21, 36/2A/11, 36/2B/20, 36/2A/9, 36/2A/8, 36/2B/19, Mundhwa, Pune by M/s. Shree Sharan Infrastructure
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajkumar C Behr
4.Name of Consultant	Ms. Sayali Jagtap-Approved EIA Coordinator
5.Type of project	Residential & Commercial project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	S. no. 36/2B/4, 36/2B/21, 36/2A/11, 36/2B/20, 36/2A/9, 36/2A/8, 36/2B/19, Mundhwa, Pune
9.Taluka	Haveli
10.Village	Mundhwa
Correspondence Name:	Mr. Puneet Behr
Room Number:	-
Floor:	-
Building Name:	Konark Estates
Road/Street Name:	Bund Garden road
Locality:	Pune
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: D.P. Layout - DPO CC /1857 /18, Date : 18/09/2018
	Approved Built-up Area: 43330.17
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	12000 sq. m
16.Deductions	1800 sq. m
17.Net Plot area	10200 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22949.68 sq. m
	b) Non FSI area (sq. m.): 20380.49 Sq.M.
	c) Total BUA area (sq. m.): 43330.17
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 22949.68 sq. m
	Approved Non FSI area (sq. m.): 20380.49 Sq.M.
	Date of Approval: 18-09-2018
19.Total ground coverage (m2)	2058.95 Sq.M.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20 %
21.Estimated cost of the project	470000000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Wing A	Basement + Ground parking + 16 floors	49.95 m
2	Wing B	Basement + Ground parking + 16 floors	49.95 m
3	Wing C	Basement + Ground parking + 16 floors	49.95 m
4	Club house	Ground +1 floor	-

23.Number of tenants and shops	Residential : 298 flats Commercial shops (area 634.35 sq. m)
24.Number of expected residents / users	Residential : 1490 persons Commercial floating population : 211
25.Tenant density per hectare	300 /ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Existing 12 m wide road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.00 m
29.Existing structure (s) if any	No
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PMC
	Fresh water (CMD):	140.43
	Recycled water - Flushing (CMD):	67.05
	Recycled water - Gardening (CMD):	16.15
	Swimming pool make up (Cum):	04
	Total Water Requirement (CMD) :	227.63
	Fire fighting - Underground water tank(CMD):	225
	Fire fighting - Overhead water tank(CMD):	25 for each building
	Excess treated water	87.42
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	140.43
	Recycled water - Flushing (CMD):	67.05
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	04
	Total Water Requirement (CMD) :	211.48
	Fire fighting - Underground water tank(CMD):	225
	Fire fighting - Overhead water tank(CMD):	25 for each building
	Excess treated water	103.57
Details of Swimming pool (If any)	• Dimension of Swimming Pool: Main pool : 15 x 7.5 x 1.2 m , Kids pool : 5 x 7.5 x 0.6 m • Total water Requirement in KLD: 173 KLD • Water requirement for make up in KLD: 04 KLD • Capital Cost: Rs. 78,0,276 /- • O & M cost: - Rs. 32,000 /-	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Post monsoon 4.10 meter Pre monsoon 7.10 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	4 no's
	Size of recharge pits :	2 x 2 x 2 M pits Bore well 0.180 meter diameter and 60 meter depth silting chamber 1 x 1x 1
	Budgetary allocation (Capital cost) :	Rs. 2,75,000 /-
	Budgetary allocation (O & M cost) :	Rs. 20,000/
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 210.66 KLD Flushing tank Capacity(cum) : 105.33 KLD Fire UG tank Capacity (cum) : 225 KLD
35.Storm water drainage	**Natural water drainage pattern:**	As per contour
	Quantity of storm water:	As per runoff calculations
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	189.58 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	200 KLD
	Location & area of the STP:	Area : 150 sq. m
	Budgetary allocation (Capital cost):	Rs. 18,50,000 /-
	Budgetary allocation (O & M cost):	Rs. 2,28,000 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	Will be used within site
Waste generation in the operation Phase:	**Dry waste:**	314.88 kg/day
	Wet waste:	472.32 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	18.95 kg/day
	Others if any:	E-waste : 4.4 kg/day

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Mode of Disposal of waste:	**Dry waste:**	To authorized vendor
	Wet waste:	Treatment of OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as a manure
	Others if any:	E-waste : To authorized vendor
Area requirement:	**Location(s):**	Shown in plan
	Area for the storage of waste & other material:	56 sq. m
	Area for machinery:	Considered in above
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 14,13,440 /-
	O & M cost:	Rs. 2,62,200 /-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

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43.Green Belt Development	**Total RG area :**	RG area required (10 %) : 1200 sq. m RG on podium : 1358 sq. m
	No of trees to be cut :	0
	Number of trees to be planted :	155 trees
	List of proposed native trees :	Provided below
	Timeline for completion of plantation :	Up to 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	Azadiracta indica	Neem	11	A medium to large size hardy tree that stand in drought conditions. Attain a much larger size in dry regions.
2	Ficus benghalensis	Baniyan tree	01	Large, evergreen shady tree
3	Spathodia campanulata	Pichkari	07	A handsome large deciduous flowering tree. Good for roadside plantation.
4	Mimosops elengii	Bakul	11	Medium sized evergreen shady tree . Good for roadside planting
5	Lagerstromia flos-regineae	Taman	12	State flower tree of Maharashtra Medium sized tree with purple flowers, grows well in both dry and humid area
6	Jacaranda mimosifolia	Jacaranda	07	Medium size gracious deciduous, flowering tree which prefers moderate climate.
7	Putranjiva roxburghii	Putranjiva	16	Shady tree with red-yellow flowers
8	Mangifera indica	Mango	13	Large fruit tree
9	Cassia fistula	bahava	15	Small deciduous tree. Excellent flowering tree for arid regions.
10	Bombax ceiba	Katesavar	05	Large deciduous tree. Flowers attract many birds.
11	Butea monosperma	Palas	04	Small Deciduous. Good for roadside plantation.
12	Psidium guajava	gauva	09	Fruit Tree
13	Manilkara zapota	Chiku	05	Small hardy tree.
14	Albizia lebbeck	Shirish	15	Shady, large tree, ball shaped flowers
15	Michelia champaca	Sonchafa	07	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
16	Plumeria alba	Champa	09	Ornamental flowering tree
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2

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1	Canna indiaca	0.6m	45
2	Plumbago zeylanica	0.45m	55
3	Nerium oleander	0.9m	27
4	Allamanda yellow	0.9m	57
5	Tecoma	0.9m	43
6	Tabernomontana	0.6m	40

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	30 KW
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	1529.26 KW
	During Operation phase (Demand load):	699.81 KW
	Transformer:	630 KVA & 315 KVA
	DG set as Power back-up during operation phase:	125 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. As per MSEDCL requirements, we planned to use high efficiency Transformer & to reduce losses. Losses for Transformer will be as per IS standards & ECBC norms.
2. We are planning to keep power factor of the common load installation near unity.
3. Following are the Energy efficient fixtures should be used in our project for energy conservation :-
3.1 Energy efficient LED fixtures are proposed for bracket lights provided of all buildings.
3.2 LED lighting fixtures are proposed for general lighting for common passages, staircase & terrace area.
3.3 The estimated saving in common area lighting consumption is up to 18.31 % due to adopting above measures.
4. Solar Heating System is being proposed for Hot water to be used in Toilets of each apartment.
5. V3F drive motors should be used for lifts, which saves 30% energy consumption.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED fixtures + Solar hot water + solar PV	18.31 %

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. 41,27,850 /-
	O & M cost:	Rs. 2,06,392 /-

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51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Erosion control – dust suppression measures and barricading	Rs. 1,06,000 /-
2	Land	Site Sanitation	Rs. 26,500 /-
3	Health & safety	Site Safety	Rs.88,000 /-
4	Environment management	Environmental Monitoring	Rs. 1,20,000/-
5	Health & safety	Disinfection and Health Check-ups	Rs. 45,000 /-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	1 STP	Rs. 18,50,000 /-	Rs. 2,28,000/-
2	Rain Water Harvesting	04 pits	Rs. 2,75,000 /-	Rs. 20,000 /-
3	Solid Waste Management	1 OWC	Rs. 14,13,440 /-	Rs. 2,62,200 /-
4	Green Belt Development	155 trees	Rs. 73, 22,000 /-	Rs. 3,12,936 /-
5	Energy details	LED lighting + solar system	Rs. 41,27,850 /-	Rs. 2,06,392 /-
6	Environmental Monitoring	-	MoEFCC approved laboratory	Rs. 8,90,000 /-
7	swimming pool	-	Rs. 7,80,276 /-	Rs. 32,000 /-

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 12 m wide road

SEAC-AGENDA-0000000812

Parking details:	**Number and area of basement:**	1 no of basement
	Number and area of podia:	1 no of podium
	Total Parking area:	13118.27 sq. m
	Area per car:	30 sq. m for stilt parking , 35 sq. m for basement parking & 25 sq. m for open parking
	Area per car:	30 sq. m for stilt parking , 35 sq. m for basement parking & 25 sq. m for open parking
	Number of 2-Wheelers as approved by competent authority:	Scooters : 686 , Cycles : 333
	Number of 4-Wheelers as approved by competent authority:	333
	Public Transport:	Pune city buses
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	No
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	None within 10 km
	Category as per schedule of EIA Notification sheet	B2
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC AGENDA-000000312

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.
Ground water parameters	Satisfactory.

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

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 12000 m2, FSI area of 22949.68 m2, Non FSI area of 20380.49 m2 and total BUA of 43330.17 m2.

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

DECISION OF SEAC

SEAC-AGENDA-00000312

During discussion following points emerged:

1. PP to obtain final fire NOC.

*SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the above conditions.*

Specific Conditions by SEAC:

1) PP to obtain final fire NOC.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000312

92nd SEAC-3 Day 02

SEAC Meeting number: 92 **Meeting Date** August 21, 2019

Subject: Environment Clearance for Residential Project "Shree Nidhi", at Lohegaon by Shree Infracon through Mr Ileshkumar Patel

Is a Violation Case: No

1.Name of Project	"Shree Nidhi"
2.Type of institution	Private
3.Name of Project Proponent	Shree Infracon through Mr Ileshkumar Patel
4.Name of Consultant	sd Engineering Services Pvt. Ltd.
5.Type of project	Housing Project
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	Not applicable
8.Location of the project	S.no.- 285/2, Village Lohegaon , Taluka- Haveli, Dist – Pune, State – Maharashtra
9.Taluka	Haveli
10.Village	Lohegaon
Correspondence Name:	IIeshkumar patel
Room Number:	--
Floor:	--
Building Name:	Shree Nidhi Project Office
Road/Street Name:	Porwal Road
Locality:	Lohegaon
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation (PMC)
12.IOD/IOA/Concession/Plan Approval Number	IOD
	IOD/IOA/Concession/Plan Approval Number: CC/1830/18. Dt:- 17/09/2018.
	Approved Built-up Area: 18745.56
13.Note on the initiated work (If applicable)	C & D Buildings completed and A building work in progress as per Sanction vide letter PHA/MOM. Lohgaon /S. No. 285 / 2 /.P.No. 785, Dated 14/07/2015 & completion received for building C & D vide letter No. OCC/1236/18 DATED 28/12/2018
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	13900.00 Sq.mt
16.Deductions	2117.31 Sq.mt
17.Net Plot area	11782.69 Sq.mt
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 18745.56 Sq.mt
	b) Non FSI area (sq. m.): 11319.89 Sq.mt
	c) Total BUA area (sq. m.): 30065.45
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 11440.90 Sq.mt
	Approved Non FSI area (sq. m.): 8172.81 Sq.mt
	Date of Approval: 17-09-2018
19.Total ground coverage (m2)	3479.05 Sq.mt
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	33.86 %
21.Estimated cost of the project	561700000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A, 1 number	P+10	34.05
2	B, 1 number	P+10	34.05
3	C, 1 number	P+10	34.05
4	D, 1 number	P+10	34.05
5	E, 1 number	P+4	14.60
6	Club House, 1 number	G +1	6.45

23.Number of tenants and shops	307 flats
24.Number of expected residents / users	1535
25.Tenant density per hectare	250/Ha
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	12 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	YES, C & D –WING, A building construction in progress
30.Details of the demolition with disposal (If applicable)	Temporary structure

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PMC
	Fresh water (CMD):	138
	Recycled water - Flushing (CMD):	69
	Recycled water - Gardening (CMD):	7
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	214
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20 per building
	Excess treated water	110.5
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	138
	Recycled water - Flushing (CMD):	69
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	207
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	20 per building
	Excess treated water	117.5
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	--	--	138	--	--	14	--	--	124
Domestic	--	--	69	--	--	6.5	--	--	62.5
Gardening	--	--	7	--	--	7	--	--	00

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	14 m BGL
	Size and no of RWH tank(s) and Quantity:	Nil
	Location of the RWH tank(s):	Nil
	Quantity of recharge pits:	6 Recharge pits
	Size of recharge pits :	1.5 m x 1.5 m x 2.5 m depth
	Budgetary allocation (Capital cost) :	13.20 Lac
	Budgetary allocation (O & M cost) :	0.40 Lac/Anum
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) :248 Flushing Tank capacity (cum) : 81 Fire UG tank Capacity (cum): 200
35.Storm water drainage	**Natural water drainage pattern:**	As per storm water layout.
	Quantity of storm water:	3.71 m3/min incremental runoff
	Size of SWD:	Dia 450 mm
Sewage and Waste water	**Sewage generation in KLD:**	186.50
	STP technology:	MMBR
	Capacity of STP (CMD):	1 No of STP with capacity of 190 KLD
	Location & area of the STP:	Location Towards north boundary of project site near wing C & Area of STP is 12.6 X 6.4
	Budgetary allocation (Capital cost):	45 Lac
	Budgetary allocation (O & M cost):	10 Lac/Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	EXCAVATION: Top soil (Existing 3904.03 m3 & proposed 1652.22 m3), Murrum (Existing 1580.671 m3 & proposed -762.56 m3) & Hard Rock (Existing 2897.89 m3 & proposed -210.91 m3) MSW: 10 kg /d
	Disposal of the construction waste debris:	Excavation waste: Used within site for refilling & MSW: Handed over to Ghanta gadi
Waste generation in the operation Phase:	**Dry waste:**	307
	Wet waste:	461
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	40 kg/d
	Others if any:	E waste: 768 Kg/Year

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Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized agency SWaCH
	Wet waste:	OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure
	Others if any:	E waste : Handed over to authorized agency SWaCH
Area requirement:	**Location(s):**	Location Towards north boundary of project site near wing C
	Area for the storage of waste & other material:	12 Sq.m.
	Area for machinery:	36 Sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	14.75 Lac
	O & M cost:	3.08 Lac/annum

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG set of 160kVA	33 Liter/hr	1 single	1.853 m	100 mm	496 °C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Diesel	Diesel	Diesel
41.Source of Fuel		Authorized Dealer		
42.Mode of Transportation of fuel to site		By Road		

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43.Green Belt Development	**Total RG area :**	Total RG area required: 1390 m2, RG area proposed on ground:- 699.25, RG area proposed on podium:- 690.74
	No of trees to be cut :	No
	Number of trees to be planted :	Required 174 (Existing 29 & proposed 145)
	List of proposed native trees :	Native trees proposed
	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	Ailanthus excelsa	Maharukh	4	Medicinal value, Drought tolerant species.
2	Albizia lebek	Shirish	8	Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species (Para kids eat seeds).
3	Anthocephalus kadamba	Kadamb	10	Medicinal value, To control soil erosion, Birds, squirrels, monkey eat fruits.
4	Azardirachta indica	Neem	12	Medicinal value, To control soil erosion. To improve soil erosion
5	Bauhinia blackiana	Kanchanraj	4	Every part of the plant is medicinal, Drought tolerant species.
6	Bauhinia purpurea	Gulabi kanchan	4	Every part of the plant is medicinal ,Drought tolerant species.
7	Butea monosperma	Palas	8	Medicinal value, Bird attracting species , To control soil erosion.
8	Cassia fistula	Bahawa	8	Medicinal value, Drought tolerant species, Very ornamental, Well flowering plant, Honey bee attracting species, Host plant for Butterfly.
9	Choclospermum religiosum	Sonsawar	8	Medicinal value, Native species
10	Cordia dichotoma	Bhokar	8	Medicinal value, Edible fruits
11	Dalbergia sissoo	Shisav	8	Medicinal value, Bird attracting species
12	Ficus arnottiana	Payar	4	Drought tolerant species, Bird attracting species. To control soil erosion.
13	Ficus glomerata	Umber	4	Medicinal value, Edible fruits, Bird attracting species
14	Ficus retusa	Nandruk	8	Medicinal value, Bird attracting species, Drought tolerant species, Hardy plant.
15	Mangifera indica	Mango	8	Edible fruit, Bird attracting species.

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16	Michelia champaca	Sonchaffa	8	Medicinal value, Fragrant flowers, Butterfly larvae host plant, Bird attracting species, Fast growing.
17	Pongamia pinnata	Karanj	4	Medicinal value, Drought tolerant species, To control soil erosion, Hardy plant.
18	Saraca indica	Sita-ashok	8	Medicinal value, Religious plant.
19	Syzygium cumini	Jamun	8	Medicinal value, Edible fruit.
20	Elaeocarpus sphaericus	Rudraksha	4	Medicinal value, Native species
21	Bahunia racemosa	Apta	4	Every part of the plant is medicinal, Drought tolerant species.
22	Caryota urens	Fishtail palm	4	Grown in any type of soil. Very Hardy.
23	Erythrina indica	Pangara	4	Fragrant flowers, Drought tolerant species, Birds attracting
24	Gmelina arborea	Shivan	4	Medicinal value, Drought tolerant species, Bird attracting species.
25	Mimosups elengii	Bakul	4	Fragrant flowers, Medicinal value, To control soil erosion.
26	Murraya exotica	Kamini	4	Native species, Fragrant flowers,
27	Aegle marmelos	Bel	4	Medicinal value, Drought tolerant species,
28	Schleichera oleosa	Kusum	4	Native species, Fragrant flowers.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Nerium single pink	0.45 M	1.83 Sqm.
2	Adulsa	0.45 M	1.83 Sqm.
3	Tarwad	0.30 M	1.83 Sqm.
4	Gavati Chaha	0.30 M	1.83 Sqm.
5	Chitrak	0.30 M	1.83 Sqm.
6	Variegated tagar	0.30 M	1.83 Sqm.
7	Stachytarpheta Blue	0.30 M	1.83 Sqm.
8	Stachytarpheta Red	0.30 M	1.83 Sqm.
9	Ratrani	0.30 M	1.83 Sqm.
10	Shrimp plant red	0.30 M	1.83 Sqm.
11	Mogra	0.30 M	1.83 Sqm.
12	Sontakka	0.30 M	1.83 Sqm.
13	Powder puff dwarf	0.45 M	1.83 Sqm.
14	Cassica biflora	0.30 M	1.83 Sqm.
15	Ficus black	0.60 M	1.83 Sqm.
16	Ficus starlight	0.60 M	1.83 Sqm.
17	Alpinia yellow varigated	0.30 M	1.83 Sqm.
18	Euphorbia	0.45 M	1.83 Sqm.
19	Kodia Yellow	0.30 M	1.83 Sqm.

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20	Heliconia orange upright	0.30 M	1.83 Sqm.
21	Acalpha marble pink	0.30 M	1.83 Sqm.
22	Kamini	0.60 M	1.83 Sqm.
23	Allamanda miniature	0.60 M	1.83 Sqm.
24	Hibiscus white regular	0.60 M	1.83 Sqm.
25	Shankasur	0.60 M	1.83 Sqm.
26	Ixora deep red	0.60 M	1.83 Sqm.
27	Lagestromia indica	0.45 M	1.83 Sqm.
28	Tantani	0.30 M	1.83 Sqm.
29	Tagar blue	0.30 M	1.83 Sqm.
30	Canara bush	0.30 M	1.83 Sqm.
31	Nirgudi	0.30 M	1.83 Sqm.
32	Sagargota	0.60 M	1.83 Sqm.
33	Ber	0.60 M	1.83 Sqm.
34	Takala	0.45 M	1.83 Sqm.
35	Krushna kamal	0.23 M	1.83 Sqm.
36	Ran Jai	0.30 M	1.83 Sqm.

47.Energy

Power requirement:	**Source of power supply :**	MESDCL
	During Construction Phase: (Demand Load)	50 KW
	DG set as Power back-up during construction phase	62.5 kVA
	During Operation phase (Connected load):	1520 KW
	During Operation phase (Demand load):	710 KW
	Transformer:	1X630,1X100 kVA
	DG set as Power back-up during operation phase:	1X160 kVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NO

48.Energy saving by non-conventional method:

Solar Energy (P.V. Panels)
Auto. Timer Logic Controller
Electronic VVF drive for Lifts
Solar Hot Water heater(Solar Panel)

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

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1	Solar Energy (P.V. Panels)	0.59
2	Auto. Timer Logic Controller	2.44
3	Electronic VVF drive for Lifts	1.98
4	Solar Hot Water heater(Solar Panel)	18.53

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage waste water	STP	--
Solid waste (Biodegradable)	--	OWC
Emission from DG set	--	DG set with adequate stack height

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	44.82 Lac
	O & M cost:	1.89 Lac/Annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water For Dust Suppression	1.44
2	Air	Air & Noise Monitoring	0.48
3	Water	Water for workers	1.44
4	Water	Water Monitoring	0.6
5	Land	Site Sanitation- Mobile toilets	2.16
6	Biological	Gardening Set Up and top soil preservation	8.744
7	Socio- Economic Environment	Disinfection- Pest Control	0.06
8	Socio- Economic Environment	First Aid Facilities	0.24
9	Socio- Economic Environment	Health Check Up	0.08
10	Socio- Economic Environment	Creches For Children	0.6
11	Socio- Economic Environment	Personal Protective Equipment	0.49

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	STP	45	10
2	Rain Water Harvesting	RWH	13.20	0.40
3	Solid Waste Management	OWC	14.75	3.08
4	Green Belt Development	Green Belt Development	4.10	0.6

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5	Energy Use (Solar panel & Solar water heating	Energy conservation measures	44.82	1.89
6	Environmental Monitoring	EMP costing	MoEFCC approved laboratory	16.36

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	690.74 Sq.mt
	Total Parking area:	4902.50 Sq.mt
	Area per car:	12.50 M
	Area per car:	12.50 M
	Number of 2-Wheelers as approved by competent authority:	Scooter 538 Cycle 332
	Number of 4-Wheelers as approved by competent authority:	Car 269
	Public Transport:	PMPML
	Width of all Internal roads (m):	9 M
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA

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	Category as per schedule of EIA Notification sheet	8a (B2)
	Court cases pending if any	NA
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

SEAC-AGENDA-0000000312

PP submitted his application for prior Environmental clearance for total plot area of 13900 m2, FSI area of 18745.56 m2, Non FSI area of 11319.89 m2 and total BUA of 30065.45 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. In CER, PP has proposed construction of road in society area. This is job of local planning authority. PP to propose rain water harvesting facility and solar energy provision for schools in the vicinity and revise CER accrodingly.

*SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the above conditions.*

Specific Conditions by SEAC:

1) In CER, PP has proposed construction of road in society area. This is job of local planning authority. PP to propose rain water harvesting facility and solar energy provision for schools in the vicinity and revise CER accrodingly.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000312

92nd SEAC-3 Day 03

SEAC Meeting number: 92 **Meeting Date** August 22, 2019

Subject: Environment Clearance for Proposed IT building at Survey No. 1 Hissa no. 1A, Village -Kharadi, Taluka -Haveli, District -Pune by Gera Developements Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	Proposed IT building at Survey No. 1 Hissa no. 1A, Village -Kharadi, Taluka -Haveli, District -Pune by Gera Developements Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Gera Developements Pvt. Ltd
4.Name of Consultant	ABC Techno Labs India Pvt Ltd
5.Type of project	Construction of proposed IT building
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey no 1/1
9.Taluka	Haveli
10.Village	Kharadi
Correspondence Name:	Mr. Tushar Yeole
Room Number:	--
Floor:	--
Building Name:	200, Gera Plaza
Road/Street Name:	Boat Club road
Locality:	Pune
City:	Pune
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	The construction work will be initiated after obtaining EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	8000 sq.m.
16.Deductions	1117.72 sq. m.
17.Net Plot area	6882.28 sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 20,646.84 sq. m.
	b) Non FSI area (sq. m.): 26,607.48 sq. m.
	c) Total BUA area (sq. m.): 47254.32
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval: 21-09-2018
19.Total ground coverage (m2)	3077.46
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	45 %
21.Estimated cost of the project	890000000

22.Number of buildings & its configuration

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	IT building	3B+G+MEZZ+P+9	49.20
2	NA	NA	NA
3	NA	NA	NA
4	NA	NA	NA
5	NA	NA	NA
6	NA	NA	NA
7	NA	NA	NA
8	NA	NA	NA

23.Number of tenants and shops	NA
24.Number of expected residents / users	4000
25.Tenant density per hectare	As per DCPR of PMC
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	18.0 m wide 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	No
30.Details of the demolition with disposal (If applicable)	Not Applicable

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	PMC
	Fresh water (CMD):	89
	Recycled water - Flushing (CMD):	56
	Recycled water - Gardening (CMD):	5
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	89
	Fire fighting - Underground water tank(CMD):	350 CMD
	Fire fighting - Overhead water tank(CMD):	60 CMD
	Excess treated water	38 KLD
Wet season:	**Source of water**	PMC
	Fresh water (CMD):	89
	Recycled water - Flushing (CMD):	56
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	89
	Fire fighting - Underground water tank(CMD):	350 CMD
	Fire fighting - Overhead water tank(CMD):	60 CMD
	Excess treated water	43 KLD
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	NA
	Size and no of RWH tank(s) and Quantity:	1 X 30 CMD
	Location of the RWH tank(s):	Next to STP
	Quantity of recharge pits:	3 in nos.
	Size of recharge pits :	2 No. 3.5 m dia X 3.5 m depth, 1 No. 4 m X 2 m X 3.5 depth
	Budgetary allocation (Capital cost) :	23 Lacs
	Budgetary allocation (O & M cost) :	4 Lacs
	Details of UGT tanks if any :	UGT water tank capacity is 530 KL
35.Storm water drainage	**Natural water drainage pattern:**	NA
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	127 KLD
	STP technology:	MBBR-UF
	Capacity of STP (CMD):	130 KLD
	Location & area of the STP:	North west corner
	Budgetary allocation (Capital cost):	30 lacs
	Budgetary allocation (O & M cost):	3 lacs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	320 kg/day
	Disposal of the construction waste debris:	Construction debris, waste concrete and broken bricks will be utilised in levelling, secondary concrete, below roads and remaining will be handed over to authorised vendors
Waste generation in the operation Phase:	**Dry waste:**	700 kg/day
	Wet waste:	300 kg/day
	Hazardous waste:	spent oil or oil grease for DG sets , paints etc.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	36 kg/day
	Others if any:	E-waste-35 Kg/day

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Mode of Disposal of waste:	**Dry waste:**	Handed over to authorised recycler for further handling and disposal
	Wet waste:	Will be converted to compost using Organic Waste Converter
	Hazardous waste:	Handed over to authorized vendor
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be used as a manure
	Others if any:	E-waste will be handed over to authorized vendor
Area requirement:	**Location(s):**	On ground floor
	Area for the storage of waste & other material:	Approx. 60 sq.m.
	Area for machinery:	Approx. 24 sq. m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	12 Lacs
	O & M cost:	1 Lacs

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	DG Stack	HSD 3.2	1	6	Not applicable	Not applicable

40.Details of Fuel to be used

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

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43.Green Belt Development	**Total RG area :**	688.23
	No of trees to be cut :	NA
	Number of trees to be planted :	86
	List of proposed native trees :	Mango, neem, Bahava, Basant rani, Rakt chandan , son chafa
	Timeline for completion of plantation :	Within 6 months, after 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	Casia fistula	Bahava	10	Medicinal value , drought tolerant palnt
2	Ficus religiosa	Peepal	5	Medicinal plant, antibacterail, antifunagal
3	Mangifera indiaca	Mango	20	fruit bearing plant, flowering plant, attracts birds
4	Tabebula rosea	Basant Rani	5	flowering, shade giving, drought tolerant plant
5	Azardirachta india	Neem	20	Native, medicinal plant. leaves used to control pest
6	Bauhlnla purpurea	Rakt Chandan	10	evergreen, fragrant flowers
7	Michella Champaca	son chafa	16	Fragrant flowers leaves, attracts birds
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	-
	DG set as Power back-up during construction phase	-
	During Operation phase (Connected load):	4000 kvA
	During Operation phase (Demand load):	3462 kvA
	Transformer:	4 X 1000 kvA
	DG set as Power back-up during operation phase:	3 X 1500 kvA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NIL

48.Energy saving by non-conventional method:

Energy Efficient Equipments will be used to conserve energy.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy efficient equipments will be used wherever applicable	100 % of the common area lighting

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 Lacs
	O & M cost:	5 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	Dust Control	Water for dust supression	5
2	Sanitation	site sanitation and safety	3
3	Pollution Control	Environmental Monitoring	5
4	Pollution Control	Disinfection	3
5	Pollution Control	Health Check up	2

b) Operation Phase (with Break-up):

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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Waste water Management	STP	30	3
2	Waste Management	Solid Waste Management	12	1
3	Green belt	Tree Plantation	20	3
4	Energy conservation measures	Energy efficient equipments	10	5
5	Pollution Control	Environmental Monitoring	5.25	0.5
6	Water Conservation & management	Laying of Storm & Sewer line up to final disposal point	20	2
7	Pollution Control	Baseline Ventilation	15	0.65
8	Water conservation & management	Rain water harvesting	23	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:	Abutting to 18.0 m wide DP road

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Parking details:	**Number and area of basement:**	3 -no, Area-12340.47 sqm
	Number and area of podia:	1 - no. , Area -3078.45 sq m
	Total Parking area:	15418.97 sq m
	Area per car:	35 sq m
	Area per car:	35 sq m
	Number of 2-Wheelers as approved by competent authority:	1053
	Number of 4-Wheelers as approved by competent authority:	439
	Public Transport:	pmpml buses
	Width of all Internal roads (m):	NIL
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NIL in 10 km around project area
	Category as per schedule of EIA Notification sheet	8 (a) B-2
	Court cases pending if any	NO
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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Air Quality & Noise Level issues	Satisfactory.
Energy Management	Satisfactory.
Traffic circulation system and risk assessment	Satisfactory.
Landscape Plan	Satisfactory.
Disaster management system and risk assessment	Satisfactory.
Socioeconomic impact assessment	Satisfactory.
Environmental Management Plan	Satisfactory.
Any other issues related to environmental sustainability	Satisfactory.

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 8000 m2, FSI area of 20646.84 m2, Non FSI area of 26607.48 m2 and total BUA of 47254.32 m2.

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

DECISION OF SEAC

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During discussion following points emerged:

1. In CER, PP has proposed skill development activity which shall be replaced by some asset creation activity. PP to submit details of activities, i.e. number and location where the activity will be implemented. PP to revise CER accordingly.

*SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the above conditions.*

Specific Conditions by SEAC:

1) In CER, PP has proposed skill development activity which shall be replaced by some asset creation activity. PP to submit details of activities, i.e. number and location where the activity will be implemented. PP to revise CER accordingly.

FINAL RECOMMENDATION

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

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92nd SEAC-3 Day 03

SEAC Meeting number: 92 **Meeting Date** August 22, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership-Madhuvan 4, Survey No. 76(part), Plot No. 76B, Mohmadwadi, Tal- Haveli, Dist- Pune, State - Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 4
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey No. 76(part), Plot No. 76B - Madhuvan 4, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road.
Locality:	Off East Street
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 32670.90
13.Note on the initiated work (If applicable)	-
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	20000.00
16.Deductions	6871.20
17.Net Plot area	13128.80
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 32670.90
	b) Non FSI area (sq. m.): 10765.45
	c) Total BUA area (sq. m.): 43436.35
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2565.30
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.61
21.Estimated cost of the project	789100000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A, Number of Building: 1	Stilt Parking +11	35.25 m
2	Building B to F, Number of Building: 5	Stilt Parking +14	43.95 m

23.Number of tenants and shops	Total Tenants: 961
24.Number of expected residents / users	4805
25.Tenant density per hectare	2529
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
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6-9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	432.45
	Recycled water - Flushing (CMD):	216.23
	Recycled water - Gardening (CMD):	7.69
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	656.37
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120 m3 (20 m3 x 6 bldgs)
	Excess treated water	330.70
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	432.45
	Recycled water - Flushing (CMD):	216.23
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	648.68
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120 m3 (20 m3 x 6 bldgs)
	Excess treated water	338.40
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	648.68	648.68	Not applicable	64.86	64.86	Not applicable	583.80	583.80

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2.75 m X 1m X 1.5 m
	Budgetary allocation (Capital cost) :	2.00 lakh
	Budgetary allocation (O & M cost) :	0.30 lakh/year
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.14 m3/sec
	Size of SWD:	200 mm to 400 mm dia RCC Hume pipe
Sewage and Waste water	**Sewage generation in KLD:**	584
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of Capacity - 613 KLD
	Location & area of the STP:	Near Building A at the right top corner of plot Area : 325 sq.m
	Budgetary allocation (Capital cost):	116.76 lakh
	Budgetary allocation (O & M cost):	38.36 lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	211 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	961 kg/day
	Wet waste:	1442 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	58 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	18 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	17	17	Used Oil will be handled by authorized service provider

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	1 x 160 kVA	HSD, 37 Liters/Hr	1	13	0.1	350 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	37 Liters /Hr	37 Liters /Hr
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

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43.Green Belt Development	**Total RG area :**	1632.80 sq. m.
	No of trees to be cut :	9
	Number of trees to be planted :	192
	List of proposed native trees :	192
	Timeline for completion of plantation :	Till Project Completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	3	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	3	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	3	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Pandhra siris	3	Fast growing native tree. Fragrant flowers.
7	Gmelina arborea	Gamhar/ Shivan	3	Good for plantation for restoration. Beautiful yellow flowers
8	Heterophragma quadriloculare	Waras	3	Tree looks beautiful with bunches of white flowers.
9	Lagerstroemia thorelli & speciosa	Tamhan	5	Flowering tree with beautiful violet flowers, Butterfly larval host plant.
10	Melia dubia	Limbara	3	Tall straight growing tree, fresh foliage in summer
11	Michelia champaca	Son Chapha/ champa	10	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
12	Mitragyna parvifolia	Kalam	5	It is larval host for butterfly commander. Good shady tree.
13	Pongamia pinnata	Honge Tree, Pongam Tree	2	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
14	Pterospermum acerifolium	Muchkund	4	Fragrant large flowers, sunbirds frequently seen. Beuatidul foliage.
15	Terminalia arjuna	Arjun Tree	7	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.

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16	Mimusops elengi	Bakul	9	Evergreen tree with beautiful fragrant flowers. Good for shade.
17	Saraca asoca	Sita Ashok	7	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
18	Holarrhena antidysenterica	Pandhara kuda	18	Shrub with beautiful white fragrant flowers. Medicinal.
19	Woodfordia fruticosa	Dhayati	18	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
20	Wrightia tinctoria	Kala kuda	18	Fragrant white flowers. Medicinal tree.
21	Anogeisus latifolia	Dhawda	2	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
22	Azadirachta indica	Neem Tree	5	Fast growing, medicinal tree. Religiously important tree.
23	Baringtonia acutangula	Indian oak	5	Good foliage, beautiful red hanging flowers. Planted for shade and beautification.
24	Bauhinia purpurea	Kanchan	5	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
25	Bombax ceiba	Indian silk cotton tree	2	Tree with Good foliaage and beuatiful red flowers. Flowers are full with nectar which attracts many species of birds.
26	Butea monosperma	Palas	5	Beautiful scarlet flowers, attract many birds. Used in afforestation of saline and waterlogged regions.
27	Cassia fistula	Golden Shower/ Amaltas	5	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
28	Crataeva adansonii	-	5	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
29	Dalbergia sissoo	Sisoo	5	Fast growing tree. Larval host for butterfly Black Rajah.
30	Dillenia indica	Mota karmal	2	Showy big leaves. Fruits are sour, food value
31	Erythrina stricta	Pangara	5	Fast growing. Beautiful red flowers. Attracts lot of birds during flowering.
32	Holoptelea integrifolia	Indian Elm	5	Good shade tree for summer. Pods are edible.
33	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	10	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.
34	Thespesia populnea	Indian Tulip Tree/ Bhendi	5	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.

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45.Total quantity of plants on ground	

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	2158 kW
	During Operation phase (Demand load):	1641 kW
	Transformer:	3 x 630 kVA
	DG set as Power back-up during operation phase:	160 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 214 kW
2. Water Heating: 26 kW
3. Common Area Lighting: 14 kW
4. External / Landscape Area Lighting: 92 kW
5. Parking (Basement + Stilt) Area Lighting: 25 kW
6. Plumbing, Fire, Equipment & Ventilation: 28 kW
7. Lifts & Escalators: 9 kW

Total Energy Saving: 19.93 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	10.44
2	Water Heating	1.27
3	Common Area Lighting	0.68
4	External / Landscape Area Lighting	4.49
5	Parking (Basement + Stilt) Area Lighting	1.22
6	Plumbing, Fire, Equipment & Ventilation	1.37
7	Lifts & Escalators	0.44

50.Details of pollution control Systems

SEAC-AGENDA-000000000313

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage treatment plant – 584 CMD capacity
Biodegradable Waste	Not applicable	Organic Waste Converter (OWC)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	131.76 lakh
	O & M cost:	39.86 lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Mobile toilets with/ without STP	No. 10 of units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, Acoustic enclosures, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	116.76	38.36
2	Rain water harvesting	Ground Water Recharge	2.00	0.30
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater	87.45	0.87
5	Gardening	Green Belt Development	18.46	1.85
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	136.48	27.30

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

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Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	3430.60
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 1009, Cycles - 2018
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 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	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	26-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

SEAC-AGENDA-0000000313

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

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 20000m2, FSI area of 32670.90 m2, Non FSI area of 10765.45 m2 and total BUA of 43436.35 m2.

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

SEAC-AGENDA-0000000313

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 91st meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000313

92nd SEAC-3 Day 03

SEAC Meeting number: 92 **Meeting Date** August 22, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership-Madhuvan 2" located at Survey No.77 Mohmadwadi, Tal- Haveli, Dist- Pune, State- Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 2
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
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	S. No. 77, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road
Locality:	Off East Street
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 37617.02
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	18500.00
16.Deductions	3189.24
17.Net Plot area	15310.76
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 37617.02
	b) Non FSI area (sq. m.): 12282.00
	c) Total BUA area (sq. m.): 49899.00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2858.30
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.66
21.Estimated cost of the project	832500000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A to G, Number of Buildings-7	Stilt Parking+14	43.95

23.Number of tenants and shops	Tenants: 1106
24.Number of expected residents / users	5530
25.Tenant density per hectare	2989
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
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6-9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	497.70
	Recycled water - Flushing (CMD):	248.85
	Recycled water - Gardening (CMD):	10.81
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	757.36
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	140 m3 (20 m3 x 7 bldgs)
	Excess treated water	378.64 m3
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	497.70
	Recycled water - Flushing (CMD):	248.85
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	746.55
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	140 m3 (20 m3 x 7 bldgs)
	Excess treated water	389.45 m3
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	746.55	746.55	Not applicable	74.65	74.65	Not applicable	671.90	671.90

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2.75 m X 1m X 1.5m
	Budgetary allocation (Capital cost) :	2.0 lakh
	Budgetary allocation (O & M cost) :	0.3 lakh/year
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.16 m3/sec
	Size of SWD:	200 mm to 450 mm RCC Hume Pipe
Sewage and Waste water	**Sewage generation in KLD:**	672
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	705
	Location & area of the STP:	Near Building B at the corner of Amenity Space Area : 400 sq.m
	Budgetary allocation (Capital cost):	134 lakh
	Budgetary allocation (O & M cost):	44 lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Concrete Waste: 243 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	1106 kg/day
	Wet waste:	1659 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	67 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	18 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	20	20	Used Oil will be handled by authorized service provider

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	1× 180 KVA	HSD - 48 Liters/H	1	13	0.125	400 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	48 Liters/H	48 Liters/H
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

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43.Green Belt Development	**Total RG area :**	1,801.26
	No of trees to be cut :	3
	Number of trees to be planted :	203
	List of proposed native trees :	203
	Timeline for completion of plantation :	Till the Project Completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	3	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	3	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting.
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	4	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Pandhra siris	4	Fast growing native tree. Fragrant flowers.
7	Gmelina arborea	Gamhar/ Shivan	6	Good for plantation for restoration. Beautiful yellow flowers.
8	Heterophragma quadriloculare	Waras	6	Tree looks beautiful with bunches of white flowers.
9	Lagerstroemia thorelli & speciosa	Tamhan	7	Flowering tree with beautiful violet flowers, Butterfly larval host plant.
10	Melia dubia	Limbara	3	Tall straight growing tree, fresh foliage in summer
11	Michelia champaca	Son Chapha/ champa	14	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
12	Mitragyna parvifolia	Kalam	7	It is larval host for butterfly commander. Good shady tree.
13	Pongamia pinnata	Honge Tree, Pongam Tree	7	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
14	Terminalia arjuna	Arjun Tree	7	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.
15	Mimusops elengi	Bakul	7	Evergreen tree with beautiful fragrant flowers. Good for shade.

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16	Saraca asoca	Sita Ashok	7	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
17	Holarrhena antidysenterica	Pandhara kuda	27	Shrub with beautiful white fragrant flowers. Medicinal.
18	Woodfordia fruticosa	Dhayati	20	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
19	Wrightia tinctoria	Kala kuda	20	Fragrant white flowers. Medicinal tree.
20	Anogeisus latifolia	Dhawda	2	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
21	Azadirachta indica	Neem Tree	2	Fast growing, medicinal tree. Religiously important tree.
22	Baringtonia acutangula	Indian oak	2	Good foliage, beautiful red hanging flowers. Planted for shade and beautification.
23	Bauhinia purpurea	Kanchan	2	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
24	Bombax ceiba	Indian silk cotton tree	2	Tree with Good foliaage and beuatiful red flowers. Flowers are full with nectar which attracts many species of birds.
25	Butea monosperma	Palas	2	Beautiful scarlet flowers, attract many birds. Used in afforestation of saline and waterlogged regions.
26	Cassia fistula	Golden Shower/ Amaltas	5	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
27	Crataeva adansonii	-	2	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
28	Dalbergia sissoo	Sisoo	5	Fast growing tree. Larval host for butterfly Black Rajah
29	Dillenia indica	Mota karmal	2	Showy big leaves. Fruits are sour,food value
30	Erythrina stricta	Pangara	2	Fast growing. Beautiful red flowers. Attracts lot of birds during flowering.
31	Ficus bengalensis	Wad	1	Larval host for butterflies like common Indian crow. Fruiting trees attract lot of birds. Ecologically important tree species. Medicinal.
32	Holoptelea integrifolia	Indian Elm	5	Good shade tree for summer. Pods are edible.
33	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	10	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.

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34	Thespesia populnea	Indian Tulip Tree/ Bhendi	5	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	2484 kW
	During Operation phase (Demand load):	1890 kW
	Transformer:	3 x 630 kVA
	DG set as Power back-up during operation phase:	1 × 180 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 283 kW
2. Water Heating: 23 kW
3. Common Area Lighting: 23 kW
4. External / Landscape Area Lighting: 122 kW
5. Parking (Basement + Stilt) Area Lighting: 54 kW
6. Plumbing, Fire, Equipment & Ventilation: 25 kW
7. Lifts & Escalators: 11 kW
Total Saving: 22.24 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	11.64
2	Water Heating	0.95
3	Common Area Lighting	0.95
4	External / Landscape Area Lighting	5.02
5	Parking (Basement + Stilt) Area Lighting	2.22
6	Plumbing, Fire, Equipment & Ventilation	1.03

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7	Lifts & Escalators	0.45

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	NA	Sewage treatment plant – 705 CMD capacity
Biodegradable Waste	NA	Organic Waste Converter

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	149 lakhs
	O & M cost:	45.5 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	Mobile toilets with/ without STP	No. of 10 units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, Acoustic enclosures, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	134	44
2	Rain water harvesting	Ground Water Recharge	2.0	0.30
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater	101	1.00
5	Gardening	Green Belt Development	21.16	2.16
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	148.90	29.78

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

SEAC-AGENDA-0000000313

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	3948.10 sq. m.
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 1161, Bicycles - 2323
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 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	NA

SEACAGENDA-00000000313

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	22-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

SEAC-AGENDA-0000000313

PP submitted his application for prior Environmental clearance for total plot area of 18500 m2, FSI area of 37617.02 m2, Non FSI area of 12282 m2 and total BUA of 49899 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 91st meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000313

SEAC Meeting number: 92 **Meeting Date** August 22, 2019

Subject: Environment Clearance for Commercial Complex - Fortune Mall & Pulse Care Hospital" at Sitabuldi, Nagpur by M/s. GIGEO Construction Co. Pvt. Ltd., Nagpur

Is a Violation Case: No

1.Name of Project	Commercial Complex - Fortune Mall & Pulse Care Hospital" at Sitabuldi, Nagpur by M/s. GIGEO Construction Co. Pvt. Ltd., Nagpur
2.Type of institution	Private
3.Name of Project Proponent	M/s. GIGEO Construction Co. Pvt. Ltd., Nagpur
4.Name of Consultant	M/s. Anacon Laboratories Pvt. Ltd.
5.Type of project	Commercial Complex, Mall & Pulse Care Hospital
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	Kh. No. 317, CTS No. 3110, 3111, 3112, Sitabuldi, Nagpur
9.Taluka	Nagpur Urban
10.Village	Nagpur
Correspondence Name:	Shri. Chhaganlal Patel
Room Number:	0
Floor:	Fourth Floor
Building Name:	Fortune Mall
Road/Street Name:	State Highway 255, Jhansi Rani Square
Locality:	Sitabuldi
City:	Nagpur
11.Whether in Corporation / Municipal / other area	Nagpur Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Obtained Nagpur Improvement Trust (NIT) approval
	IOD/IOA/Concession/Plan Approval Number: No
	Approved Built-up Area: 28228.695
13.Note on the initiated work (If applicable)	Work stared in Year 2003
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Letter No. B/E.(West/1683) dtd. 26/04/2016
15.Total Plot Area (sq. m.)	8931.562
16.Deductions	0
17.Net Plot area	8931.562
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 21570.615
	b) Non FSI area (sq. m.): 6658.08
	c) Total BUA area (sq. m.): 28228.695
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 21570.615
	Approved Non FSI area (sq. m.): 6658.08
	Date of Approval: 12-12-2007
19.Total ground coverage (m2)	8931.562
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	85
21.Estimated cost of the project	1440008570

22.Number of buildings & its configuration

SEAC-AGENDA-000000000313

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Fortune Mall & Pulse Care Hospital	3+4	22.11
2			

23.Number of tenants and shops	200
24.Number of expected residents / users	1800
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	State Highway 255 present in north at a distance of 10 meter
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Nil
29.Existing structure (s) if any	None
30.Details of the demolition with disposal (If applicable)	This was a new developmental activity on vacant plot, hence there was no demolition work was involved.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Building & Construction Project	Not applicable	Not applicable	Not applicable

32.Total Water Requirement

SEAC-AGENDA-000000313

Dry season:	**Source of water**	Currently Seepage water & Nagpur Municipal Corporation supply
	Fresh water (CMD):	50
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	50
	Fire fighting - Underground water tank(CMD):	20
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	0
Wet season:	**Source of water**	Currently Seepage water & Nagpur Municipal Corporation supply
	Fresh water (CMD):	50
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	50
	Fire fighting - Underground water tank(CMD):	20
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	0
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	50	0	50	17.125	0	17.125	32.875	0	32.875

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	3 m
	Size and no of RWH tank(s) and Quantity:	Nil
	Location of the RWH tank(s):	RWH systems is not proposed for this project as the natural ground water table is encountered at 3-4 meters BGL and natural drainage system is located very near to project location.
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Nil
	Budgetary allocation (Capital cost) :	Nil
	Budgetary allocation (O & M cost) :	Nil
	Details of UGT tanks if any :	100 KLD
35.Storm water drainage	**Natural water drainage pattern:**	There is no natural drainage system flowing through site.
	Quantity of storm water:	747.6 m3/hr.
	Size of SWD:	Not applicable
Sewage and Waste water	**Sewage generation in KLD:**	32.87 5
	STP technology:	Septic tank
	Capacity of STP (CMD):	Nil
	Location & area of the STP:	Not applicable
	Budgetary allocation (Capital cost):	Nil
	Budgetary allocation (O & M cost):	Nil
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	It is estimated that around 70-100 tons of construction waste shall be generated during the proposed construction
	Disposal of the construction waste debris:	The C&D waste shall be disposed-off as directed by local authority.
Waste generation in the operation Phase:	**Dry waste:**	1000-1200 Kgs/day – Recyclable Waste from Shopping Complex. 350-400 kg of Solid waste from domestic activities of staff. 210-240 kg of dry waste (of domestic waste).
	Wet waste:	140-160 kg of wet waste (of domestic waste).
	Hazardous waste:	No
	Biomedical waste (If applicable):	It is expected that around 150 Kgs of bio-medical waste shall be generated7
	STP Sludge (Dry sludge):	Nil
	Others if any:	Nil

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Mode of Disposal of waste:	**Dry waste:**	Recyclable Sold to recyclers & other waste Segregated at source and disposed-off with municipal facilities
	Wet waste:	disposed-off with municipal facilities
	Hazardous waste:	No
	Biomedical waste (If applicable):	Disposed of as per Biomedical waste handling rule
	STP Sludge (Dry sludge):	Not envisaged. If required septic tank cleaning will be done through NMC
	Others if any:	Nil
Area requirement:	**Location(s):**	Color codes waste bins for collection of dry waste and wet waste shall be provided at designated locations
	Area for the storage of waste & other material:	Designated locations
	Area for machinery:	None
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Nil
	O & M cost:	Nil

37.Effluent Charecterestics

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

Amount of effluent generation (CMD):	32.875
Capacity of the ETP:	Septic tanks
Amount of treated effluent recycled :	0
Amount of water send to the CETP:	0
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Septic tanks
Disposal of the ETP sludge	Public sewer

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	HSD	As per requirement for standby DG Set	0	Not applicable

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

43.Green Belt Development	**Total RG area :**	0
	No of trees to be cut :	0
	Number of trees to be planted :	120
	List of proposed native trees :	Ashoka, Bougainvillea & other native fruit bearing plants
	Timeline for completion of plantation :	3 Years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	As per requirement
	DG set as Power back-up during construction phase	250 KVA
	During Operation phase (Connected load):	1200 KVA
	During Operation phase (Demand load):	1500 KVA
	Transformer:	No
	DG set as Power back-up during operation phase:	250 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	None

48.Energy saving by non-conventional method:

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? The energy conservation measures planned for operation phase of project include:
? Suitable planning for orientation in such a way that solar heat gain within the leaving areas are minimized and daylight is maximized. Annual pre-dominant wind direction noted for Nagpur city are North, Northwest and North East. The project gets the benefit of north facing orientation with its longer axis orientated along east-west direction.
? The building material used for building envelop are selected such that thermal conductance is minimal. The fenestration products selected for the new construction shall be such that it confirms to recommended characteristics in ECBC and National building code.
? Interior and exterior lighting shall comply with the recommendations of ECBC for lighting power densities;
? Three KW capacity solar system shall be installed with the net metering arrangements for monitoring the solar power generation.
? The pumping system, air conditioning system, refrigeration equipment deployed in building shall be minimum three Star rating compliant.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Not applicable	Not applicable

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:**	Nil
	O & M cost:	Nil

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

b) Operation Phase (with Break-up):

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

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1

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Parking details:	**Number and area of basement:**	1 (4111.53 sq.m)
	Number and area of podia:	Nil
	Total Parking area:	6658.08
	Area per car:	Not applicable
	Area per car:	Not applicable
	Number of 2-Wheelers as approved by competent authority:	As per NIT guidelines
	Number of 4-Wheelers as approved by competent authority:	As per NIT guidelines
	Public Transport:	City bus, Metro rail in process
	Width of all Internal roads (m):	None
	CRZ/ RRZ clearance obtain, if any:	No
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable
	Category as per schedule of EIA Notification sheet	8a
	Court cases pending if any	Nil

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	Other Relevant Informations	M/s. GIGEO Construction Co. Pvt. Ltd. (hereafter called Company), Nagpur has proposed a commercial complex at Sitabuldi, Nagpur as per Government of Maharashtra Resolution Vide order No. NIT-2296/L.No.156/NV26 dtd. 07th Oct. 1997 in respect of Development of land. The land belongs to Shri. Subhash G. Buty, Shri. Sudhir G. Buty & Family (hereafter called Landowners). The Company has signed the MoU dtd. 05/06/1998 & amended thereafter with Landowners for development of land area 6911.68 sq.m on profit sharing basis & 2019.882 sq.m was purchased by the company, thus totaling 8931.562 sq. m. of land. As per the procedures of local body i.e. Nagpur Improvement Trust (NIT), building plan was submitted to NIT on 04/05/1998 considering sanction for FSI 2.5 i.e. for total builtup area of 32,376.91 sq. m. including balcony area, common space & parking area. However, NIT did not provide sanction upto 2002, in spite of repeated pursuance from the company. Hence the company stared construction work in 2002 in anticipation of deemed sanction of the building plan by NIT as per their rule. In year the 2005, NIT has suddenly asked to stop the construction activity on the pretext of non-sanctioning building plan by NIT. On intervention of the Hon'ble Court NIT has agreed for sanction of the plan on withdrawal of court case. Subsequently, NIT has accorded sanction to building plan with FSI 1.25 instead of deemed to be sanction FSI 2.5. However, It is to mention here that by that time entire structural frame work (basement 1 floor + 6 floors) of nearly "28,000 sq.m" along with some masonry & plaster work was completed. That we have stopped the work and restructured the plan and submitted revised building plan for approval in the year 2015. NIT conveyed their approval in-principle/tentative vide letter No. B/E.(West/1683) dtd. 26/04/2016 wherein asked to submit Environmental Clearance for the project activity. As per the EIA Notification 2006 & amendments thereafter, the building & construction project activities are falling under schedule (8a) and prior environment clearance is needs to be obtained from MoEF&CC, GOI for the projects before any construction work, or preparation of land by the project management except for securing the land (Para 2 of EIA Notification 2006). Thus it appears from above paras, the EIA Notification 2006 is not applicable. However, as per the NIT letter dtd. 26/04/2016, enclosed is the Form 1 & Form 1A as per MoEF&CC guidelines for above mentioned project. Submitted for consideration and needful action. Awaiting for inclusion of the case in SEIAA/SEAC III meeting for further consideration.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-04-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

PP remained ***absent.*** The proposal was deferred.

DECISION OF SEAC

PP remained ***absent.*** The proposal was deferred.

Specific Conditions by SEAC:

SEAC AGENDA 06.08.2019

FINAL RECOMMENDATION

Kindly find SEIAA decision above.

SEAC-AGENDA-0000000313

92nd SEAC-3 Day 03

SEAC Meeting number: 92 **Meeting Date** August 22, 2019

Subject: Environment Clearance for Construction of EWS and LIG DU affordable housing project under PMAY at Kolhapur

Is a Violation Case: No

1.Name of Project	'Gruh Pooja' Affordable Housing project under PMAY at Kolhapur
2.Type of institution	Private
3.Name of Project Proponent	Paras Bhomraj Oswal
4.Name of Consultant	Terracon Ecotech Pvt. Ltd., India
5.Type of project	Affordable housing project under PMAY
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	R.S. No. 775/4, 775/5, Kadamwadi
9.Taluka	Karvir
10.Village	-
Correspondence Name:	Paras Bhomraj Oswal
Room Number:	2804/B, Gala no. 2/3,
Floor:	Ground floor,
Building Name:	Prarthana Apartment,
Road/Street Name:	Bhakti Pooja Nagar,
Locality:	Mangalwar peth,
City:	Kolhapur,
11.Whether in Corporation / Municipal / other area	Kolhapur Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 37777.29
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	26800
16.Deductions	12319.6
17.Net Plot area	14480.4
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 35226.21
	b) Non FSI area (sq. m.): 21040.63
	c) Total BUA area (sq. m.): 56266.84
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** na
	Approved Non FSI area (sq. m.): na
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	6195.05
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	23.11
21.Estimated cost of the project	956607000

22.Number of buildings & its configuration

SEAC-AGENDA-000000313

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A, B	2P+12	41.45
2	C, D, E, F, G, H	2P+11	38.50
3	Amenity Building	LG+UG+3	15

23.Number of tenants and shops	Residential: 660 nos
24.Number of expected residents / users	2926
25.Tenant density per hectare	246
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 m DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	No
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	KMC
	Fresh water (CMD):	266
	Recycled water - Flushing (CMD):	137
	Recycled water - Gardening (CMD):	71
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	404
	Fire fighting - Underground water tank(CMD):	As per fire NOC
	Fire fighting - Overhead water tank(CMD):	As per fire NOC
	Excess treated water	152
Wet season:	**Source of water**	KMC
	Fresh water (CMD):	165
	Recycled water - Flushing (CMD):	137
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	na
	Total Water Requirement (CMD) :	404
	Fire fighting - Underground water tank(CMD):	As per Fire NOC
	Fire fighting - Overhead water tank(CMD):	As per Fire NOC
	Excess treated water	223
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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10 m
	Size and no of RWH tank(s) and Quantity:	100.5 m3
	Location of the RWH tank(s):	underground
	Quantity of recharge pits:	Nil
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	2300000
	Budgetary allocation (O & M cost) :	230000
	Details of UGT tanks if any :	UG tanks for domestic water, flushing, fire and rainwater harvesting are proposed
35.Storm water drainage	**Natural water drainage pattern:**	The storm water collected through the storm water drains of adequate capacity will be discharged to the nearest storm water line
	Quantity of storm water:	0.23 m3/s
	Size of SWD:	450 mm and 600 mm wide drains
Sewage and Waste water	**Sewage generation in KLD:**	364
	STP technology:	MBBR
	Capacity of STP (CMD):	STP total capacity 385 KLD
	Location & area of the STP:	on ground,Total area: 235 m2
	Budgetary allocation (Capital cost):	8500000
	Budgetary allocation (O & M cost):	1500000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste and debris
	Disposal of the construction waste debris:	As per district collectors guidelines
Waste generation in the operation Phase:	**Dry waste:**	585 kg/day
	Wet waste:	878 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	4 m3/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	will be handed over to authorized vendor
	Wet waste:	will be composed at site
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	will be composted at site
	Others if any:	NA
Area requirement:	**Location(s):**	on ground
	Area for the storage of waste & other material:	60 m2
	Area for machinery:	26 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	4000000
	O & M cost:	1000000

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

SEAC-AGENDA-0000000313

43.Green Belt Development	**Total RG area :**	1763.07 m2
	No of trees to be cut :	10 nos
	Number of trees to be planted :	220 nos
	List of proposed native trees :	Bakul, Chapha, Sita ashoka, Bel, Karanj etc
	Timeline for completion of plantation :	Till project completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Tabubuia pentaphylla	Pink trumpet tree	20	Native
2	Azadiracta indica	Neem	20	Native
3	Mimusops elengi	Bakul	7	Native
4	Cassia fistula	Bahawa	8	Native
5	Saraca indica	Sita ashoka	10	Native
6	Lagerstroemia speciosa	Tamhan	02	Native
7	Phoenix palm	Date Palm	20	Native
8	Butea monosperma	Palas	04	Native
9	Alstonia Scholaris	Saptaparni	10	Native
10	Erythrina Indica	Parijat	15	Native flower bearing
11	Millingtonia hortensis	Buchade Jhad	15	Native
12	Achras sapota	Chiku tree	15	Native fruit bearing
13	Annona reticulata	Custard apple tree	15	Native fruit bearing
14	Nerium Oleander	Kaneri pink	10	Native Flower bearing
15	Tamarindus indica	Tamarind tree	2	Native Fruit bearing
16	Mangifera indica	Mango tree	15	Native Fruit bearing
17	Ficus carica	Fig Tree	2	Native Fruit bearing
18	Psidium guajava	Guava tree	10	Native Fruit bearing
19	Carica papaya	Papaya tree	10	Native Fruit bearing
20	Plumeria rubra	Chafa	10	Native Flower bearing
45.Total quantity of plants on ground				

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

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

47.Energy

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Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	15 kW
	DG set as Power back-up during construction phase	yes
	During Operation phase (Connected load):	2076 kW
	During Operation phase (Demand load):	1198 kW
	Transformer:	3 Nos. 630 KVA Each
	DG set as Power back-up during operation phase:	2 nos. of 125 KVA DG Sets
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar Hot water provision, Provision of Solar PV panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar hot water, Solar PV panels, efficient lighting design, shading devices	2.64%

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:**	5000000
	O & M cost:	100000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Health Checkup	-	1.5
2	Safety	PPE and safety net	4.5
3	Dust suppression	water spraying	1
4	Disinfection	water supply, solidwaste management, toilet facility	3

b) Operation Phase (with Break-up):

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Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	RWH	RWH tanks	23	2.3
2	STP	sewage treatment	85	15
3	Solid waste management	Composting unit	40	10
4	Solar	Hot water and PV panels	50	1
5	Environmental monitoring	As per the CPCB guidelines through MoEF Approved laboratories	-	4

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 junction to the main road
Parking details:	**Number and area of basement:**	NIL
	Number and area of podia:	Nil
	Total Parking area:	5965 m2
	Area per car:	30 m2
	Area per car:	30 m2
	Number of 2-Wheelers as approved by competent authority:	927
	Number of 4-Wheelers as approved by competent authority:	207
	Public Transport:	yes
	Width of all Internal roads (m):	6m
	CRZ/ RRZ clearance obtain, if any:	NA

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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	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	28-11-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

SEAC-AGENDA-0000000313

PP submitted his application for prior Environmental clearance for total plot area of 26800 m2, FSI area of 35226.21 m2, Non FSI area of 21040.63 m2 and total BUA of 56266.84 m2.

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

DECISION OF SEAC

During discussion following points emerged:

1. In CER, PP has proposed storm water drain maintenance (cost. Rs. 26 lakh) and development of DP Road (cost. Rs. 30 lakh). PP to replace those activities with activity like providing ambulance to Municipal Hospital, construction of school for local bodies in adjoining area. PP to revise CER accordingly.

*SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the above conditions.*

Specific Conditions by SEAC:

1) In CER, PP has proposed storm water drain maintenance (cost. Rs. 26 lakh) and development of DP Road (cost. Rs. 30 lakh). PP to replace those activities with activity like providing ambulance to Municipal Hospital, construction of school for local bodies in adjoining area. PP to revise CER accordingly.

FINAL RECOMMENDATION

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

SEAC AGENDA-0000000313

92nd SEAC-3 Day 03

SEAC Meeting number: 92 **Meeting Date** August 22, 2019

Subject: Environment Clearance for Proposed expansion of IT Project SP Infocity by The Manjri Stud Farm Pvt. Ltd. at Phursungi , Pune

Is a Violation Case: No

1.Name of Project	SP Infocity by The Manjri Stud Farm Pvt. Ltd. at Phursungi , Pune
2.Type of institution	TOR
3.Name of Project Proponent	Mr. Rajendra Gadekar
4.Name of Consultant	M/s. Building Environment (I) Pvt. Ltd.
5.Type of project	Proposed expansion of IT Project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in As per EC 2019 Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes , SEIAA Meeting No: 150 Meeting,SEIAA-EC-0000000613 Date: January 15,2019
8.Location of the project	S.No.210/1, 210/2, 210/3, 210/4, 210/5 (Plot. 1 & Plot no.2) next to Satyapuram Society, Pune Saswad road, Phursungi
9.Taluka	Haveli
10.Village	Phursungi
Correspondence Name:	Mr. Rajendra Gadekar
Room Number:	S. No. 210/1, 210/2, 210/3, 210/4, 210/5 (Plot. 1 & Plot no.2)
Floor:	Next to Satyapuram Society
Building Name:	SP Infocity
Road/Street Name:	Pune Saswad Road
Locality:	Phursungi
City:	Pune
11.Whether in Corporation / Municipal / other area	PMC
12.IOD/IOA/Concession/Plan Approval Number	Commencement Certificate received from PMDRA DP/BHA/Mouze Phursungi/S. No. 209/3 & Other/ C.R. No. 944/17-18 Dated 08.02.2019
	IOD/IOA/Concession/Plan Approval Number: Ref. No.: DP/BHA/Mouze Phursungi/S. No. 209/3 & Other/ C.R. No. 944/17-18 Dated 08.02.2019
	Approved Built-up Area: 234594.02
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	162083.44(Plot 1)+157816.56 (Plot 2)= 3,19,900.00 Sq.M.
16.Deductions	6227.43(Plot 1)+6559.93 (Plot 2)= 12,787.36 Sq.M.
17.Net Plot area	155856.01(Plot 1)+151256.63 (Plot 2)= 3,07,112.64 Sq.M.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** As per EC 2019 - 429516.54 Sq.M. + Proposed Expansion In Plot 1 - 234594.02 Sq.M. Total = 664110.56 Sq.M.
	b) Non FSI area (sq. m.): As per EC 2019 - 288309.03 Sq.M. + Proposed Expansion In Plot 1 - 157880.43 Sq.M. Total = 446189.46 Sq.M.
	c) Total BUA area (sq. m.): 1095300.31
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** As per EC 2019 - 429516.54 Sq.M. + Proposed Expansion In Plot 1 - 234594.02 Sq.M. Total = 664110.56 Sq.M.
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 08-02-2019
19.Total ground coverage (m2)	As per EC 2019 - 107090.76 Sq.M. + Proposed Expansion In Plot 1 - 20520.17 Sq.M. - Deduct Stru. to be Demolish -9659.30 Sq.M. Total = 117951.63 Sq.M.

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20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	As per EC 2019 - 34.87 % + Proposed Expansion In Plot 1 - 6.68 % - Deduct Stru. to be Demolish - 3.14 % Total = 38.41 %
21.Estimated cost of the project	9811900000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	EXISTING BUILDINGS PRIOR TO 2006	--	--
2	PLOT 1	--	--
3	Bldg 1 (To be Demolish)	(LG+G+1)	11.27M
4	Bldg. 2	LG+UG+3	18.55
5	Bldg. 3	LG+UG+3	18.55
6	Bldg. A1	G+4	15
7	Bldg. A2	G+4	15
8	Bldg. A3	G+4	15
9	Bldg. A4	G+4	15
10	Multipurpose Hall (To be Demolish)	G	3.60
11	EXISTING BUILDINGS (EC GRANTED IN 2007, 2014 & 2017	--	--
12	PLOT 1	--	--
13	Bldg. B1	3P+14	52.40
14	Bldg. B2	P+12	37.50
15	Bldg. B3	P+12	37.50
16	Bldg. B4	P+12	37.50
17	PLOT 2	--	--
18	Bldg 4 Wing A	LP+G+3	19.60
19	Bldg 4 Wing B	LP+G+3	23.60
20	Bldg 4 Wing C	LP+G+3	19.60
21	Bldg 5 Wing A	P+6	27.60
22	Bldg 5 Wing B	B+P+6	27.60
23	Bldg 5 Wing C	B+P+6	27.60
24	PROPOSED BUILDINGS (EC GRANTED IN 2019)	--	--
25	PLOT 1	--	--
26	Club House In Amenity	G+1	8.70
27	Community Hall In Open Space	G+1	7.80
28	Club House In Open Space	G+1	7.80
29	PLOT 2	--	--
30	Bldg 8 Wing A & B	B+LG+G+1P+11	54.70
31	Bldg 9 Wing A	B+LG+G+4P+10	59.95
32	Bldg 9 Wing B	LG+G+4P+9	56.80
33	Bldg 10 Wing A	LG+G+4P+9	56.80
34	Bldg 10 Wing B	LG+G+4P+8	52.60
35	Utility Block	B+G	6.10

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36	Institute Of Training, Learning & Development Centre In Amenity	LG+G+2	14.60
37	Club House In Open Space	G+1	7.80
38	NEWLY PROPOSED BUILDINGS IN EXPANSION	--	--
39	PLOT 1	--	--
40	Building 1	B+LG+G+3P+15	68.40
41	Building 7	LG+G/P+2P+13	63.50
42	Building 6 (TLD)	LG+G+3	20.30

23.Number of tenants and shops	TOTAL: 305 Nos. Tenements & 440 Nos. of Offices (As per EC 2019 : 305 Nos. Tenements & 270 Nos. of Offices + Proposed Expansion: 170 Nos. of Offices)
24.Number of expected residents / users	TOTAL: 72605 Nos. (As per EC 2019: 48890 Nos. + Proposed Expansion: 25215 Nos.(74105)- After deduction of demolished structure: 1500 Nos.)
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	Existing 30 m (Proposed 60 m wide 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	Bldg 1(LG+G+1)-Ht- 11.27M (To be Demolish) and Multipurpose Hall - G - Ht- 3.60M (To be Demolish)
30.Details of the demolition with disposal (If applicable)	Bldg 1(LG+G+1)-Ht- 11.27M (To be Demolish) and Multipurpose Hall - G - Ht- 3.60M (To be Demolish) , We will be disposed off debris generated due to demolition of existing structures in proper and safe mode

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	CGWB/Tanker/Irrigation
	Fresh water (CMD):	2507 (As per EC 2019-1121KLD + Proposed Expansion -1386 KLD)
	Recycled water - Flushing (CMD):	1467 (As per EC 2019-951 KLD + Proposed Expansion - 516KLD)
	Recycled water - Gardening (CMD):	601 (As per EC 2019-263KLD + Proposed Expansion- 338KLD)
	Swimming pool make up (Cum):	10 (As per EC 2019-10 CMD + Proposed Expansion- 0)
	Total Water Requirement (CMD) :	4238 (As per EC 2019-2336KLD + Proposed Expansion- 1902KLD)
	Fire fighting - Underground water tank(CMD):	720 (As per EC 2019-270KLD + Proposed Expansion- 450KLD)
	Fire fighting - Overhead water tank(CMD):	80 (As per EC 2019-10KLD + Proposed Expansion- 70KLD)
	Excess treated water	48 (As per EC 2019-48KLD + Proposed Expansion- 0)
Wet season:	**Source of water**	CGWB/Tanker/Irrigation
	Fresh water (CMD):	2169 (As per EC 2019-1121KLD + Proposed Expansion- 1048KLD)
	Recycled water - Flushing (CMD):	1467 (As per EC 2019-951KLD + Proposed Expansion- 516KLD)
	Recycled water - Gardening (CMD):	0 (As per EC 2019-0KLD + Proposed Expansion- 0KLD)
	Swimming pool make up (Cum):	10 (As per EC 2019-10 CMD + Proposed Expansion- 0)
	Total Water Requirement (CMD) :	3900 (As per EC 2019-2336KLD + Proposed Expansion- 1564KLD)
	Fire fighting - Underground water tank(CMD):	720 (As per EC 2019-270KLD + Proposed Expansion- 450KLD)
	Fire fighting - Overhead water tank(CMD):	80 (As per EC 2019-10KLD + Proposed Expansion- 70KLD)
	Excess treated water	217 (As per EC 2019-217KLD + Proposed Expansion- 0KLD)
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

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	15m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	50 Nos. (As per EC 2019: 32 Nos. + Proposed Expansion: 18 Nos.)
	Size of recharge pits :	(As per EC 2019: 2.5 m x2.5m x3m & Proposed Expansion: 2mx2mx2m)
	Budgetary allocation (Capital cost) :	Rs. 69.76 Lakh (As per EC 2019: 55 Lakh + Proposed Expansion: 14.76 Lakh)
	Budgetary allocation (O & M cost) :	Rs. 6.90 Lakh (As per EC 2019: 4.40 Lakh + Proposed Expansion: 2.50 Lakh)
	Details of UGT tanks if any :	Total 3 Nos. of UGT (As per 2019: 2 nos UGT + Proposed Expansion: 1 No. of UGT)
35.Storm water drainage	**Natural water drainage pattern:**	South direction to North direction
	Quantity of storm water:	15.90 m3/min
	Size of SWD:	300mm
Sewage and Waste water	**Sewage generation in KLD:**	Total 3146 KLD (As per EC 2019: 1994 KLD + Proposed Expansion: 1152 KLD)
	STP technology:	MBBR (As per EC 2019: MBBR + Proposed Expansion: MBBR)
	Capacity of STP (CMD):	Total 10 Nos. of STP of capacities 600KLD, 225KLD, 1100KLD, 110KLD, 300KLD, 720KLD, 80KLD, 330KLD, 86KLD,77KLD (As per EC 2019: 5 Nos. of STP (600KLD, 225KLD, 1100KLD, 110KLD, 300KLD,86KLD,77KLD)+ Proposed Expansion: 3 Nos. of STP (720KLD, 80KLD, 330KLD)
	Location & area of the STP:	Plot 1 & Plot 2 and Total area 934 Sq.M. (As per EC 2019: Plot 2 (378 Sq.M) + Plot 1 (565 Sq.M.)
	Budgetary allocation (Capital cost):	Rs. 496.67 Lakh (As per EC 2019: 298.67 Lakh + Proposed Expansion: 198 Lakh)
	Budgetary allocation (O & M cost):	Rs. 70.54 Lakh (As per EC 2019: 25.18 Lakh + Proposed Expansion: 45.36 Lakh)

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Top Soil & Debris
	Disposal of the construction waste debris:	Top Soil will be used for landscaping & debris will be used for back-filling & leveling)
Waste generation in the operation Phase:	**Dry waste:**	9088 Kg/day (As per EC 2019: 5306 Kg/day + Proposed Expansion: 3782 Kg/day)
	Wet waste:	6059 Kg/day (As per EC 2019: 3537 Kg/day + Proposed Expansion: 2522 Kg/day)
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	282 Kg/day (As per EC 2019: 226 Kg/day + Proposed Expansion: 56 Kg/day)
	Others if any:	E-Waste: 25215 kg/year

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Mode of Disposal of waste:	**Dry waste:**	Collected & Disposed through authorized agency
	Wet waste:	Treated in OWC & Used as manure in landscape
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Treated in OWC & used as manure in landscape
	Others if any:	E Waste: Collected & Disposed through authorized agency
Area requirement:	**Location(s):**	Near Building 1 & 7
	Area for the storage of waste & other material:	83 Sq.M. (As per EC 2019: 53 Sq.M. + Proposed Expansion: 30 Sq.M.)
	Area for machinery:	359 Sq.M. (As per EC 2019: 209 Sq.M. + Proposed Expansion: 150 Sq.M.)
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 122.50 Lakh (As per EC 2019: 45.25 Lakh + Proposed Expansion: 77.25 Lakh)
	O & M cost:	Rs. 31.28 Lakh/ year (As per EC 2019: 14.38 Lakh/year + Proposed Expansion: 16.90 Lakh/year)

37.Effluent Charecterestics

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

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

38.Hazardous Waste Details

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

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	2500 KVA & 6 Nos.	HSD & 485 L/Hr(100% Loading)	1 per DG	79.6	2 Nos. x 0.355	560
2	1010 KVA & 2 Nos.	HSD & 203.8 ltr/hr(100% Loading)	1 per DG	6.4	2 Nos. x 0.254	500
3	2500 KVA & 5 Nos.	HSD & 485 L/Hr(100% Loading)	1 per DG	75.85	2 Nos. x 0.355	560

40.Details of Fuel to be used

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Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	HSD	HSD	HSD
41.Source of Fuel		Nearby Pump		
42.Mode of Transportation of fuel to site		By Road		

43.Green Belt Development	**Total RG area :**	46261.85 Sq.M.
	No of trees to be cut :	506 Nos. (As per EC 2019: 5 Nos. + Proposed Expansion: 501 Nos.) will be relocated
	Number of trees to be planted :	4842 Nos. (Existing Trees: 1859 + Proposed Trees: 2983)
	List of proposed native trees :	Kanchan, Pangara, Indian Almond,Indian Cork Tree,Flame of Forest, Mango, Bakul, Pink Cassia, Soan Chafa, Neem, Fish tail Palm, Bahava, Kadamba, Guava, Lucky Bean Tree, Poplar, Shireesh, Karanj, Wad, Umbar, Arjun, Bel, Hirda, Behada, Jamun, Amla
	Timeline for completion of plantation :	4 years

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Bauhinea Purpurea	Kanchan	241	Ornamental value, Avenue tree, Fast growing Deep root system so good for slope stabilization & soil erosion control
2	Erythrina Indica	Pangara	97	Ornamental, Soil Improver
3	Terminalia Catappa	Indian Almond	207	Prevents soil erosion, Shade & Ornamental, Roadside, Drought tolerant, Fast growth
4	Millingtonea Hortensis	Indian Cork Tree	180	Fast growing, Ornamental, Prone to breakage in heavy storms
5	Butea Monosperma	Flame of Forest	64	Slope stabilization, Prevent soil erosion, Ornamental, Avenue tree
6	Mangifera Indica	Mango	68	Edible fruit & Shady tree, Attracts birds for Nesting
7	Mimusops Elengii	Bakul	196	Deep shade & Ornamental, Yellowish White flowers, Delicious Aroma
8	Cassia Javanica	Pink Cassia	90	Ornamental, Road side tree
9	Brassia Actinophylla	Umbrella Tree	40	Decorative, Attracts honey eating birds
10	Michelia Champaka	Soan Chafa	209	Ornamental near temples, Road side, Soil improver
11	Azadirachta indica	Neem	73	Avenues roadsides for shade, Used as windbreak, Purifies air
12	Caryota Urens	Fishtail Palm	63	Slow growing, Attractive
13	Cassia Fistula	Bahava	204	Extremly Showy, Flowering
14	Anthocepaelus Cadamba	Kadamba	153	Avenues roadside for shade, Soil improver, Ornamental use
15	Psidium Guajava	Guava	64	Edible Fruit
16	Putrangiva Roxburghii	Lucky Bean Tree	59	Ornamental Shady Tree

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17	Plumeria Alba	Champa White	49	Attractive to Bees, Butterflies & Birds, Very Ornamental
18	Populas Termuloides	Poplar	128	Windbreak, Shade, Erosion control, Ornamental, Fast growing
19	Albizzia Lebbeck	Shireesh	66	Shady tree, Yellowish green fragrant flowers
20	Pongamia Pinnata	Karanj	59	Shady tree
21	Ficus Bengalensis	Wad	35	Shady tree, Attracts birds for nesting
22	Ficus Glomerata	Umbar	56	Edible fruit & Shady tree, Attracts birds for nesting
23	Khaya Senegalensis	African Mahogani	101	Reforestation, Ornamental
24	Terminalia Arjuna	Arjun	47	Shady tree, Medicinal Properties
25	Aegle Marmelos	Bel	102	Shady tree, Medicinal properties
26	Terminalia Chebula	Hirda	66	Medicinal properties
27	Terminalia Bellirica	Behada	43	Medicinal properties
28	Syzygium Cumini	Jamun	64	Edible fruit & Shady tree, Attracts birds for nesting
29	Phyllanthus Emblica	Amla	60	Edible fruit & Medicinal properties
30	Annona Squamosa	Sitafal	54	Edible fruit & Medicinal properties
31	Manilkara Zapota	Chikoo	45	Edible fruit
32		Total	2983	
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	Lantana White	300	-
2	Lantana Red	300	-
3	Lantana Blue	300	-
4	Lantana Yellow	300	-
5	Abelia Variegated	300	-
6	Wedelia Trilobata	300	-
7	Ixora Chinese Orange	450	-
8	Cuphea	300	-
9	Galphimea	450	-
10	Hamelia Patens Dwarf	300	-
11	Allamanda Yellow Dwarf	300	-
12	Canna Red Dwarf	300	-
13	Eranthemum Flowering	450	-
14	Oleander Dwarf Single red	450	-
15	Balsam	300	-
16	Verbena Lilac Pink	300	-
17	Verbena Lilac Purple	300	-
18	Verbena Lilac White	300	-
19	Ophiopogon Variegated	300	-
20	Rhoeo	300	-

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21	Ixora Red Hybrid	450	-
22	Plumbago Blue	450	-
23	Hibiscus White La France	450	-
24	Agloenoema	450	-
25	Allamanda Purple	450	-
26	Acalypha Wilkesiana Rosea	450	-
27	Alpinia Speciosa	450	-
28	Calliandra Dwarf	450	-
29	Tagar Variegated	450	-
30	Pentas Red	450	-
31	Myana Erecta Dwarf 450	450	-
32	Schefflera Variegated	450	-
33	Bamboo Grass	450	-
34	Pampas Grass	450	-

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	As per EC 2019 - 192 kW , Proposed Expansion - 182.83 kW, Total - 374.83 kW
	DG set as Power back-up during construction phase	As per EC 2019 - 3 No. x 125 kVA, Proposed Expansion - 1 No. x 200 kVA, Total - 3 No. x 125 kVA and 1 No. x 200 kVA
	During Operation phase (Connected load):	As per EC 2019 - 33661 kW,Proposed Expansion - 25786.05kW, Total - 59447.05 kW
	During Operation phase (Demand load):	As per EC 2019 - 42997 kW, Proposed Expansion - 20161.80 kW, Total - 63158.80 kW
	Transformer:	As per EC 2019 - 2000 kVA , 4 x 1500 kVA,2 x 1600 kVA, 1 x 2000 kVA, 1x2100 kVA, 3 x 1000 kVA,2 x 2500kVA, 2x3000kVA, 2x 500 kVA, 5.Nos x 2 MVA , 6.Nos x 1.6 MVA , 4.Nos x 2 MVA , 4 x 630 kVA, 9 x 2000 kVA & 6 x 1600 kVA, Proposed Expansion - 2500 kVA x 11 nos. + 2000 kVA x 1 Nos.,Total -2000 kVA , 4 x 1500 kVA,2 x 1600 kVA, 1 x 2000 kVA, 1x2100 kVA,3 x 1000 kVA,2 x 2500kVA, 2x3000kVA, 2x 500 kVA, 5.Nos x 2 MVA , 6.Nos x 1.6 MVA , 4.Nos x 2 MVA , 4 x 630 kVA, 9 x 2000 kVA & 6 x 1600 kVA, 2500 kV
	DG set as Power back-up during operation phase:	As per EC 2019 - 5 x 1000 kVA& 9 x 1010 kVA & 2 x 500 kVA, 1 x 275 kVA & 1 x 200 kVA, 7x 1500 kVA, 16 x 2000 kVA, Proposed Expansion -2500 kVA x 11 Nos.+1010 kVA x 2 Nos. Total -5 x 1000 kVA& 9 x 1010 kVA & 2 x 500 kVA, 1 x 275 kVA & 1 x 200 kVA, 7x 1500 kVA, 16 x 2000 kVA, 2500 kVA x 11 Nos.+1010 kVA x 2 Nos.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Use of Energy generated from Solar PV system for common areas .Savings- 1.2%

49.Detail calculations & % of saving:

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Serial Number	Energy Conservation Measures	Saving %
1	As per EC 2019- Use of Energy Efficient and Solar PV system	40 %
2	Proposed Expansion - Use of Energy Efficient and Solar PV system	20 %
3	Total	20 % to 40%

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:**	As per EC 2019- 115 Lacs , Proposed Expansion - 121.81 Lacs, Total - 236.81 Lacs
	O & M cost:	As per EC 2019- 3.45 Lacs , Proposed Expansion - 6.09 Lacs, Total - 9.54 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	Personnel Protective Equipment	-	15
2	Site Sanitation Facility	-	3.00
3	Drinking water facility	-	3.00
4	Solid waste management	-	2.40
5	Safety railing, platform, ladder, hoist, Cranes etc	-	15.00
6	House keeping	-	3.00
7	Health Check up	-	3.00
8	Environmental Monitoring	-	6.00
9	Total Cost	-	50.4

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	-	198	45.36
2	Rain Water harvesting	-	14.76	2.50
3	Organic waste composting	-	77.25	16.90
4	Landscape & Tree Plantation	-	735.00	59.84
5	Energy Saving measures	-	121.81	6.09
6	Environmental Monitoring	-	0	8.00
7	Total	-	1146.82	138.69

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	As per EC 2019 - 26812 Sq.M. , Proposed Expansion -15030.06 Sq.M.
	Number and area of podia:	As per EC 2019 - 1 Podium in As per EC 2019 Bldgs 4, 5, Res Bldgs B1, B2, B3 & B4 with total Area of As per EC 2019 Podium = 26684.96 Sq.M. , Proposed Expansion -1 No.of Podium in Bldg 1 & 1 No.of Podium in Bldg 7 Podium = 13483.38 Sq.M.
	Total Parking area:	As per EC 2019 - 235106.29 Sq.M., Proposed Expansion -113635.73 Sq.M. Total-348742.02 Sq.M.
	Area per car:	As per EC 2019- 28 Sq.M. Proposed Expansion- 30.27 Sq.M. , Total- 29.14 Sq.M.
	Area per car:	As per EC 2019- 28 Sq.M. Proposed Expansion- 30.27 Sq.M. , Total- 29.14 Sq.M.
	Number of 2-Wheelers as approved by competent authority:	As per EC 2019- 11982 Nos. ,Proposed Expansion- 7565 Nos. , Total- 19547 Nos.
	Number of 4-Wheelers as approved by competent authority:	As per EC 2019- 5669 Nos., Proposed Expansion-3558 Nos., Total- 9127 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	12
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	B

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	Court cases pending if any	NA
	Other Relevant Informations	Total Built Up Area - 10,95,300.31 Sq.M. (Plot 1= 5,08,939 + Plot 2= 5,86,361.31) (As per EC January 2019 : 7,17,825.57 Sqm.+ Proposed expansion : 3,92,474.45 Sqm -14,999.71 Sqm.) (Existing +Proposed Buildings EC Granted As per 2019 : 7,17,825.57 Sq.M.+ Proposed: 3,92,474.45 Sq.M. = 11,10,300.02 Sq.M. – Area To Be Demolish:14999.71 Sq.M. = 10,95,300.31 Sq.M.
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

SEAC-AGENDA-0000000513

PP submitted his application for prior Environmental clearance for total plot area of 3,19,900 m2, FSI area of 664110.56 m2, Non FSI area of 446189.46 m2 and total BUA of 1095300 m2.

The case was discussed on the basis of the documents submitted and presentation made by the proponent. All issues relating to environment, including air, water, land, soil, ecology, biodiversity and social aspects were examined. The proposal is appraised as category 8(a)B1.

DECISION OF SEAC

During discussion following points emerged:

1. PP to obtain final CFO NOC.

*SEAC decided to **recommend** the proposal for prior environmental Clearance, subject to PP complying with the above conditions.*

Specific Conditions by SEAC:

1) PP to obtain final CFO NOC.

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000313

92nd SEAC-3 Day 03

SEAC Meeting number: 92 **Meeting Date** August 22, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership-Madhuvan 1" located at Survey No. 78 Mohmadwadi, Tal- Haveli, Dist- Pune, State-Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 1
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
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	S. No. 78, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road
Locality:	Off East Street
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 33078.56
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	23800 sq. m.
16.Deductions	10563.27 sq. m.
17.Net Plot area	13236.73 sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 33078.56
	b) Non FSI area (sq. m.): 10829.66
	c) Total BUA area (sq. m.): 43908.22
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2565.30
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.38
21.Estimated cost of the project	896400000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A to E, Number of Buildings-5	Stilt Parking +14	43.95
2	Building F, Number of Building-1	Stilt Parking +12	38.15

23.Number of tenants and shops	Tenants: 973
24.Number of expected residents / users	4865
25.Tenant density per hectare	2044
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
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	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	437.85
	Recycled water - Flushing (CMD):	218.93
	Recycled water - Gardening (CMD):	9.30
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	666.12
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120 (20 CMD x 6 bldgs)
	Excess treated water	333.27 CMD
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	437.85
	Recycled water - Flushing (CMD):	218.93
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	656.78
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	120 (20 CMD x 6 bldgs)
	Excess treated water	342.62 CMD
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	656.78	656.78	Not applicable	65.68	65.68	Not applicable	591.10	591.10

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	6
	Size of recharge pits :	2.75m X 1m X 1.5m
	Budgetary allocation (Capital cost) :	2.40 lakh
	Budgetary allocation (O & M cost) :	0.36 lakh/year
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.14 m3/sec
	Size of SWD:	200 mm to 450 mm dia RCC Hume pipes
Sewage and Waste water	**Sewage generation in KLD:**	591.10
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	Number of STP - 1, Capacity of STP - 620 KLD
	Location & area of the STP:	Location: Near Building C at the corner of Amenity Space Area : 328 sq.m
	Budgetary allocation (Capital cost):	118 lakh
	Budgetary allocation (O & M cost):	39 lakh/year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Concrete Waste: 213 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	973 kg/day
	Wet waste:	1460 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	59 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	15 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	17	17	Used Oil will be handled by authorized service provider

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	1 × 160 kVA	HSD - 37 Litres/hr	1	13	0.1	350

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	37 Litres/hr	37 Litres/hr
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

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43.Green Belt Development	**Total RG area :**	1557.28 m2
	No of trees to be cut :	0
	Number of trees to be planted :	177
	List of proposed native trees :	177
	Timeline for completion of plantation :	Till the 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	Calophyllum inophyllum	Undi	3	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	3	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting.
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	3	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Albizia procera	3	Fast growing native tree. Fragrant flowers
7	Gmelina arborea	Gamhar/ Shivan	3	Good for plantation for restoration. Beautiful yellow flowers.
8	Heterophragma quadriloculare	Waras	3	Tree looks beautiful with bunches of white flowers.
9	Lagerstroemia thorelli & speciosa	Tamhan	5	Flowering tree with beautiful violet flowers, Butterfly larval host plant.
10	Melia dubia	Limbara	2	Tall straight growing tree, fresh foliage in summer
11	Michelia champaca	Son Chapha/ champa	12	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
12	Mitragyna parvifolia	Kalam	7	It is larval host for butterfly commander. Good shady tree.
13	Pongamia pinnata	Honge Tree, Pongam Tree	7	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
14	Pterospermum acerifolium	Muchkund	3	Fragrant large flowers, sunbirds frequently seen. Beuatidul foliage.
15	Terminalia arjuna	Arjun Tree	7	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.

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16	Mimusops elengi	Bakul	7	Evergreen tree with beautiful fragrant flowers. Good for shade.
17	Saraca asoca	Sita Ashok	7	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
18	Holarrhena antidysenterica	Pandhara kuda	18	Shrub with beautiful white fragrant flowers. Medicinal.
19	Woodfordia fruticosa	Dhayati	18	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
20	Wrightia tinctoria	Kala kuda	18	Fragrant white flowers. Medicinal tree.
21	Anogeisus latifolia	Dhawda	2	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
22	Azadirachta indica	Neem Tree	2	Fast growing, medicinal tree. Religiously important tree.
23	Baringtonia acutangula	Indian oak	2	Good foliage, beautiful red hanging flowers. Planted for shade and beautification.
24	Bauhinia purpurea	Kanchan	2	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
25	Bombax ceiba	Indian silk cotton tree	2	Tree with Good foliage and beautiful red flowers. Flowers are full with nectar which attracts many species of birds.
26	Butea monosperma	Palas	2	Beautiful scarlet flowers, attract many birds. Used in afforestation of saline and waterlogged regions.
27	Cassia fistula	Golden Shower/ Amaltas	5	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
28	Crataeva adansonii	-	2	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
29	Dalbergia sissoo	Sisoo	5	Fast growing tree. Larval host for butterfly Black Rajah.
30	Dillenia indica	Mota karmal	2	Showy big leaves. Fruits are sour,food value
31	Erythrina stricta	Pangara	2	Fast growing. Beautiful red flowers. Attracts lot of birds during flowering
32	Ficus bengalensis	Wad	1	Larval host for butterflies like common Indian crow. Fruiting trees attract lot of birds. Ecologically important tree species. Medicinal.
33	Holoptelea integrifolia	Indian Elm	2	Good shade tree for summer. Pods are edible.

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34	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	10	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.
35	Thespesia populnea	Indian Tulip Tree/ Bhendi	5	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.
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)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	2185 kW
	During Operation phase (Demand load):	1,660 kW
	Transformer:	3 × 630 kVA
	DG set as Power back-up during operation phase:	1 × 160 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 216 kW
2. Water Heating: 34 kW
3. Common Area Lighting: 12 kW
4. External / Landscape Area Lighting: 136 kW
5. Parking (Basement + Stilt) Area Lighting: 34 kW
6. Plumbing, Fire, Equipment & Ventilation: 29 kW
7. Lifts & Escalators: 9 kW

Total Percentage Saving: 22.08 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	10.14
2	Water Heating	1.60
3	Common Area Lighting	0.56

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4	External / Landscape Area Lighting	6.38
5	Parking (Basement + Stilt) Area Lighting	1.60
6	Plumbing, Fire, Equipment & Ventilation	1.36
7	Lifts & Escalators	0.42

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage treatment plant – 620 CMD capacity
Biodegradable Waste	Not applicable	Organic Waste Converter (OWC)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	133 lakhs
	O & M cost:	40.5 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	Mobile toilets	No. 10 of units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like site barricading, water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	118	39
2	Rain water harvesting	Ground Water Recharge	2.40	0.36
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater & PV System	88.5	0.89
5	Gardening	Green Belt Development	18.68	2
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	136.48	27.3

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

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

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	3466.70 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 1019 Bicycles - 2041
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 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) B2
	Court cases pending if any	NA
	Other Relevant Informations	NA

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	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	21-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

SEAC-AGENDA-0000000313

PP submitted his application for prior Environmental clearance for total plot area of 23800 m2, FSI area of 33078.56 m2, Non FSI area of 10829.66 m2 and total BUA of 43908.22 m2.

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

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 91st meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000313

92nd SEAC-3 Day 03

SEAC Meeting number: 92 **Meeting Date** August 22, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership-Madhuvan 3" located at Survey no. 76(part), Plot No. 76A Mohmadwadi, Tal- Haveli, Dist- Pune, State-Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 3
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey no. 76(part) Plot No. 76A, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road
Locality:	Off East Street
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 26656.26
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	18,100.00
16.Deductions	7,411.38
17.Net Plot area	10688.62
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 26656.26
	b) Non FSI area (sq. m.): 8939.01
	c) Total BUA area (sq. m.): 35595.27
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	2137.75
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20
21.Estimated cost of the project	700700000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A to B, Number of Buildings-2	Stilt Parking+12	38.15
2	Building C to E, Number of Buildings-3	Stilt Parking+14	43.95

23.Number of tenants and shops	Tenants: 784
24.Number of expected residents / users	3920
25.Tenant density per hectare	2165
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
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	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

SEAC-AGENDA-000000313

Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	352.80
	Recycled water - Flushing (CMD):	176.40
	Recycled water - Gardening (CMD):	7.54
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	536.74
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	100 m3 (20 m3 x 5 bldgs)
	Excess treated water	268.53
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	352.80
	Recycled water - Flushing (CMD):	176.40
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	529.20
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	100 m3 (20 m3 x 5 bldgs)
	Excess treated water	276.07
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	529.2	529.2	Not applicable	52.9	52.9	Not applicable	476.3	476.3

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2.75 m X 1m X 1.5m
	Budgetary allocation (Capital cost) :	2.0 lakh
	Budgetary allocation (O & M cost) :	0.3 lakh/year
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.11 m3/sec
	Size of SWD:	200 mm to 400 mm diameter RCC Hume pipe
Sewage and Waste water	**Sewage generation in KLD:**	476
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	500
	Location & area of the STP:	Near Building A at the right top corner of plot, Area : 275 sq.m
	Budgetary allocation (Capital cost):	95.26 lakh
	Budgetary allocation (O & M cost):	31.29 lakhs/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Concrete Waste: 172 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	784 kg/day
	Wet waste:	1176 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	34 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Near Bottom corner of building C
	Area for the storage of waste & other material:	18 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	15	15	Used Oil will be handled by authorized service provider

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	1 × 125 KVA	28 Liters/Hour	1	13	100	300 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	NA	28 Liters/Hour	28 Liters/Hour
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

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43.Green Belt Development	**Total RG area :**	1257.48 sq. m.
	No of trees to be cut :	3
	Number of trees to be planted :	143
	List of proposed native trees :	143
	Timeline for completion of plantation :	Till the project completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	2	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	3	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting.
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	3	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Pandhra siris	2	Fast growing native tree. Fragrant flowers.
7	Heterophragma quadriloculare	Waras	8	Tree looks beautiful with bunches of white flowers.
8	Lagerstroemia thorelli & speciosa	Tamhan	8	Flowering tree with beautiful violet flowers, Butterfly larval host plant.
9	Melia dubia	Limbara	3	Tall straight growing tree, fresh foliage in summer
10	Michelia champaca	Son Chapha/ champa	14	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
11	Mitragyna parvifolia	Kalam	7	It is larval host for butterfly commander. Good shady tree.
12	Pongamia pinnata	Honge Tree, Pongam Tree	7	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
13	Pterospermum acerifolium	Muchkund	4	Fragrant large flowers, sunbirds frequently seen. Beautiful foliage.
14	Terminalia arjuna	Arjun Tree	9	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.
15	Mimusops elengi	Bakul	9	Evergreen tree with beautiful fragrant flowers. Good for shade.

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16	Saraca asoca	Sita Ashok	9	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
17	Holarrhena antidysenterica	Pandhara kuda	8	Shrub with beautiful white fragrant flowers. Medicinal.
18	Woodfordia fruticosa	Dhayati	7	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
19	Wrightia tinctoria	Kala kuda	7	Fragrant white flowers. Medicinal tree.
20	Anogeisus latifolia	Dhawda	1	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
21	Azadirachta indica	Neem Tree	1	Fast growing, medicinal tree. Religiously important tree.
22	Baringtonia acutangula	Indian oak	1	Good foliage, beautiful red hanging flowers. Planted for shade and beautification.
23	Bauhinia purpurea	Kanchan	2	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
24	Bombax ceiba	Indian silk cotton tree	2	Tree with Good foliaage and beuatiful red flowers. Flowers are full with nectar which attracts many species of birds.
25	Butea monosperma	Palas	1	Beautiful scarlet flowers, attract many birds. Used in afforestation of saline and waterlogged regions.
26	Cassia fistula	Golden Shower/ Amaltas	5	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
27	Crataeva adansonii	-	1	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
28	Dalbergia sissoo	Sisoo	1	Fast growing tree. Larval host for butterfly Black Rajah.
29	Holoptelea integrifolia	Indian Elm	5	Good shade tree for summer. Pods are edible
30	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	6	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.
31	Thespesia populnea	Indian Tulip Tree/ Bhendi	5	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.
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

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47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	1760 kW
	During Operation phase (Demand load):	1341 kW
	Transformer:	3 × 500 kVA
	DG set as Power back-up during operation phase:	1 ×125 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 186 kW
2. Water Heating: 16 kW
3. Common Area Lighting: 14 kW
4. External / Landscape Area Lighting: 113 kW
5. Parking (Basement + Stilt) Area Lighting: 35 kW
6. Plumbing, Fire, Equipment & Ventilation: 15 kW
7. Lifts & Escalators: 7 kW
Total Saving: 22.35 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	10.77
2	Water Heating	0.93
3	Common Area Lighting	0.81
4	External / Landscape Area Lighting	6.54
5	Parking (Basement + Stilt) Area Lighting	2.03
6	Plumbing, Fire, Equipment & Ventilation	0.87
7	Lifts & Escalators	0.41

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	NA	Sewage treatment plant – 500 CMD capacity
Biodegradable Waste	NA	Organic Waste Converter

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Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	110.26 lakh
	O & M cost:	32 lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Mobile toilets with/ without STP	No. 10 of units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, Acoustic enclosures, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	95.26	31.29
2	Rain water harvesting	Ground Water Recharge	2.0	0.30
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater	71.34	0.71
5	Gardening	Green Belt Development	15.09	1.5
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	124.06	24.81

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

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

52.Any Other Information

No Information Available

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53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2798.20 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 823, Bicycles - 1646
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 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	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	25-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.

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

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 18100 m2, FSI area of 26656.26 m2, Non FSI area of 8939.01 m2 and total BUA of 35595.27 m2.

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

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DECISION OF SEAC

PP has satisfactorily complied with the points raised in 91st meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

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92nd SEAC-3 Day 03

SEAC Meeting number: 92 **Meeting Date** August 22, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership - Madhuvan 5- Survey No. 76(part), Plot No. 76C Mohmadwadi, Tal- Haveli, Dist- Pune, State - Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 5
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	Survey No. 76(part), Plot No. 76C - Madhuvan 5, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road
Locality:	Off East Street
City:	Pune - 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 22164.26
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	12500.00
16.Deductions	3624.31
17.Net Plot area	8875.69
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 22164.26
	b) Non FSI area (sq. m.): 7321.31
	c) Total BUA area (sq. m.): 29485.57
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	1710.20
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.26
21.Estimated cost of the project	526100000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A to C, Number of Building: 3	Stilt Parking+14	43.95
2	Building D, Number of Building: 1	Stilt Parking+13	41.05

23.Number of tenants and shops	Total Tenants: 652
24.Number of expected residents / users	3260
25.Tenant density per hectare	260.8
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
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6-9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	293.40
	Recycled water - Flushing (CMD):	146.70
	Recycled water - Gardening (CMD):	6.27
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	446.37
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	80 m3 (20 m3 x 4 bldgs)
	Excess treated water	223.32
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	293.40
	Recycled water - Flushing (CMD):	146.70
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	440.10
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	80 m3 (20 m3 x 4 bldgs)
	Excess treated water	229.59
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	440.10	440.10	Not applicable	44.01	44.01	Not applicable	396.09	396.09

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2.75 m X 1m X 1.5 m
	Budgetary allocation (Capital cost) :	2 lakh/year
	Budgetary allocation (O & M cost) :	0.30 lakh
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.10 m3/sec
	Size of SWD:	200 mm to 400 mm dia RCC Hume pipes
Sewage and Waste water	**Sewage generation in KLD:**	396
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of Capacity-416 KLD
	Location & area of the STP:	Near Building A at the right top corner of plot Area : 230 sq.m
	Budgetary allocation (Capital cost):	79.22 lakh
	Budgetary allocation (O & M cost):	26.02 lakh/year
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	143 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	652 kg/day
	Wet waste:	978 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.32 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	20 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	15	15	Used Oil will be handled by authorized service provider

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	1 × 100 kVA	HSD – 24 Litres/hr	1	13	0.1	300 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	24 Litres/hr	24 Litres/hr
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

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43.Green Belt Development	**Total RG area :**	1044.20 sq. m.
	No of trees to be cut :	0
	Number of trees to be planted :	116
	List of proposed native trees :	116
	Timeline for completion of plantation :	Till the Project Completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	2	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	2	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting.
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	1	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Pandhra siris	1	Fast growing native tree. Fragrant flowers.
7	Gmelina arborea	Gamhar/ Shivan	3	Good for plantation for restoration. Beautiful yellow flowers.
8	Heterophragma quadriloculare	Waras	3	Tree looks beautiful with bunches of white flowers.
9	Lagerstroemia thorelli & speciosa	Tamhan	4	Flowering tree with beautiful violet flowers, Butterfly larval host plant.
10	Melia dubia	Limbara	2	Tall straight growing tree, fresh foliage in summer
11	Michelia champaca	Son Chapha/ champa	5	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
12	Mitragyna parvifolia	Kalam	5	It is larval host for butterfly commander. Good shady tree.
13	Pongamia pinnata	Honge Tree, Pongam Tree	4	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
14	Terminalia arjuna	Arjun Tree	5	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.
15	Mimusops elengi	Bakul	5	Evergreen tree with beautiful fragrant flowers. Good for shade.

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16	Saraca asoca	Sita Ashok	5	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
17	Holarrhena antidysenterica	Pandhara kuda	13	Shrub with beautiful white fragrant flowers. Medicinal.
18	Woodfordia fruticosa	Dhayati	12	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
19	Wrightia tinctoria	Kala kuda	10	Fragrant white flowers. Medicinal tree.
20	Anogeisus latifolia	Dhawda	1	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
21	Azadirachta indica	Neem Tree	1	Fast growing, medicinal tree. Religiously important tree.
22	Bauhinia purpurea	Kanchan	2	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
23	Cassia fistula	Golden Shower/ Amaltas	4	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
24	Crataeva adansonii	-	3	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
25	Dalbergia sissoo	Sisoo	3	Fast growing tree. Larval host for butterfly Black Rajah.
26	Dillenia indica	Mota karmal	2	Showy big leaves. Fruits are sour,food value
27	Erythrina stricta	Pangara	4	Fast growing. Beautiful red flowers. Attracts lot of birds during flowering
28	Holoptelea integrifolia	Indian Elm	4	Good shade tree for summer. Pods are edible.
29	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	5	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.
30	Thespesia populnea	Indian Tulip Tree/ Bhendi	3	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	1464 kW
	During Operation phase (Demand load):	1112 kW
	Transformer:	2 × 630 kVA
	DG set as Power back-up during operation phase:	1 × 100 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 145 kW
2. Water Heating: 14 kW
3. Common Area Lighting: 14 kW
4. External / Landscape Area Lighting: 87 kW
5. Parking (Basement + Stilt) Area Lighting: 31 kW
6. Plumbing, Fire, Equipment & Ventilation: 19 kW
7. Lifts & Escalators: 6 kW

Total Saving: 22.15 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	10.15
2	Water Heating	0.98
3	Common Area Lighting	0.98
4	External / Landscape Area Lighting	6.09
5	Parking (Basement + Stilt) Area Lighting	2.17
6	Plumbing, Fire, Equipment & Ventilation	1.33
7	Lifts & Escalators	0.42

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage treatment plant – 416 CMD
Biodegradable Waste	Not applicable	Organic Waste Converter (OWC)

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	94.22 lakh
	O & M cost:	27.72 lakh/year

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51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Mobile toilets with/ without STP	No. 10 of units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, Acoustic enclosures, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	79.22	26.02
2	Rain water harvesting	Ground Water Recharge	2.00	0.30
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater	59.33	0.59
5	Gardening	Green Belt Development	12.53	1.3
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	111.65	22.33

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

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

52.Any Other Information

No Information Available

53.Traffic Management

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	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2328.30 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 685, Cycles - 1369
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 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	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-02-2019

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SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.
Drainage pattern of the project	Satisfactory.

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

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 12500 m2, FSI area of 22164.26 m2, Non FSI area of 7321.31 m2 and total BUA of 29485.57 m2.

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

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DECISION OF SEAC

PP has satisfactorily complied with the points raised in 91st meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

92nd SEAC-3 Day 03

SEAC Meeting number: 92 **Meeting Date** August 22, 2019

Subject: Environment Clearance for "Affordable Housing in Partnership- Survey No. 76(part), Plot No. 76D, Madhuvan 6, Mohmadwadi, Tal- Haveli, Dist- Pune, State - Maharashtra

Is a Violation Case: No

1.Name of Project	MADHUVAN 6
2.Type of institution	Private
3.Name of Project Proponent	M/s. Magarpatta City Development Company Pvt. Ltd. & Sable Construction Company
4.Name of Consultant	NABET Accredited Environmental Consultant : Ecofootforward Environmental Consultancy & Engineers Pvt. Ltd., D/318, Neelkanth Business Park, Ramdev Nagar, Vidyavihar (W), Mumbai-400086 www.ecofootforward.com Tel: 022-25144129, NABET Certificate no: NABET/EIA/1720/IA0028
5.Type of project	Building Construction 8 (a)
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	Survey No. 76(part), Plot No. 76D - Madhuvan 6, Mohmadwadi, Pune
9.Taluka	Haveli
10.Village	Mohmadwadi
Correspondence Name:	Mr. Gangadhar M. Walse
Room Number:	13
Floor:	-
Building Name:	Magaspace
Road/Street Name:	Solapur Bazar Road
Locality:	Off East Street
City:	Pune- 411001
11.Whether in Corporation / Municipal / other area	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	-
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 18804.24
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	-
15.Total Plot Area (sq. m.)	10300.00
16.Deductions	2737.55
17.Net Plot area	7562.45
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 18804.24
	b) Non FSI area (sq. m.): 6566.76
	c) Total BUA area (sq. m.): 25371.00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	1441.10
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.05
21.Estimated cost of the project	442800000

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22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A to D, Number of Building: 4	Stilt Parking+14	43.95 m

23.Number of tenants and shops	Total Tenants: 552
24.Number of expected residents / users	3320
25.Tenant density per hectare	322.33
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
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	6-9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

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Dry season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	248.40
	Recycled water - Flushing (CMD):	124.20
	Recycled water - Gardening (CMD):	4.45
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	377.04
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	80 m3 (20 m3 x 4 bldgs)
	Excess treated water	189.92
Wet season:	**Source of water**	Pune Municipal Corporation (PMC)
	Fresh water (CMD):	248.40
	Recycled water - Flushing (CMD):	124.20
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	372.60
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	80 m3 (20 m3 x 4 bldgs)
	Excess treated water	194.37
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	372.60	372.60	Not applicable	37.26	37.26	Not applicable	335.34	335.34

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34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	About 12-15 meter
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	5
	Size of recharge pits :	2.75 m X 1m X 1.5 m
	Budgetary allocation (Capital cost) :	2 lakh
	Budgetary allocation (O & M cost) :	0.30 lakh/Year
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	West to East
	Quantity of storm water:	0.08 m3/sec
	Size of SWD:	200 mm to 400 mm dia RCC Hume pipe
Sewage and Waste water	**Sewage generation in KLD:**	335
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 STP of Capacity - 352 KLD
	Location & area of the STP:	Near Building A at the right top corner of plot, Area : 200 sq.m
	Budgetary allocation (Capital cost):	67.07 lakh
	Budgetary allocation (O & M cost):	22.03 lakh/Year

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	121 cum
	Disposal of the construction waste debris:	Will be reused for ground filling and leveling at construction site
Waste generation in the operation Phase:	**Dry waste:**	664 kg/day
	Wet waste:	996 kg/day
	Hazardous waste:	As per generation
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.32 kg/day
	Others if any:	NA

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Mode of Disposal of waste:	**Dry waste:**	Authorized MPCB recycler
	Wet waste:	Organic Waste Converter (OWC)
	Hazardous waste:	Authorized service provider
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Used as manure in landscaping
	Others if any:	NA
Area requirement:	**Location(s):**	Ground
	Area for the storage of waste & other material:	18 m2
	Area for machinery:	2 m × 1.5 m × 1.5 m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15 lakh
	O & M cost:	1.5 lakh/year

37.Effluent Charecterestics

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

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	DG Waste oil	Schedule IV, Item No. 20	Litres/ 500 hr	Not applicable	15	15	Used Oil will be handled by authorized service provider

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	1 × 100 kVA	HSD – 24 Litres/hr	1	13	0.1	300 degree celcius

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	Not applicable	24 Litres/hr	24 Litres/hr
41.Source of Fuel		Local supplier		
42.Mode of Transportation of fuel to site		Local supplier		

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43.Green Belt Development	**Total RG area :**	889.70 m2
	No of trees to be cut :	0
	Number of trees to be planted :	95
	List of proposed native trees :	95
	Timeline for completion of plantation :	Till the project completion

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Calophyllum inophyllum	Undi	2	Good foliage. Beautiful flowers, attract honeybees.
2	Ficus microcarpa	Nandruk	2	Good for shade. It is larval host for butterflies. Attracts birds while fruiting.
3	Ficus religiosa	Pimpal	1	Fast growing, good for shade. It is larval host for butterflies. Attracts lot of birds while fruiting
4	Albizia lebbeck	Shirish	1	Very good for shade, suitable for roadside plantation. Beautiful yellowish pods.
5	Schleichera oleosa	Kusum	3	Beautiful tree with large shady crown. Young foliage is conspicuous with reddish leaves. It is larval host for butterflies Centaur oakblue, common hedge blue, monkey puzzle
6	Albizia procera	Pandhra siris	2	Fast growing native tree. Fragrant flowers.
7	Gmelina arborea	Gamhar/ Shivan	3	Good for plantation for restoration. Beautiful yellow flowers.
8	Heterophragma quadriloculare	Waras	3	Tree looks beautiful with bunches of white flowers.
9	Lagerstroemia thorelli & speciosa	Tamhan	4	Flowering tree with beautiful violet flowers, Butterfly larval host plant
10	Melia dubia	Limbara	2	Tall straight growing tree, fresh foliage in summer
11	Michelia champaca	Son Chapha/ champa	7	Fragrant yellow flowers. Fast growing tree. Sunbirds frequently visit the tree.
12	Mitragyna parvifolia	Kalam	5	It is larval host for butterfly commander. Good shady tree.
13	Pongamia pinnata	Honge Tree, Pongam Tree	5	Shady tree with beautiful pink flowers. Seeds are used in biofuel. Important riparian tree.
14	Terminalia arjuna	Arjun Tree	4	Medicinal tree with whitish bark. Important riparian tree. Good foliage and flowers.
15	Mimusops elengi	Bakul	4	Evergreen tree with beautiful fragrant flowers. Good for shade.

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16	Saraca asoca	Sita Ashok	4	Good shady tree with attractive red-yellow flowers. Medicinal tree. It is larval host for butterfly like common cerulean.
17	Holarrhena antidysenterica	Pandhara kuda	7	Shrub with beautiful white fragrant flowers. Medicinal.
18	Woodfordia fruticosa	Dhayati	7	Shrub with beautiful red flowers. Flower attracts many birds (Sunbirds, flowerpeckers). Medicinal.
19	Wrightia tinctoria	Kala kuda	7	Fragrant white flowers. Medicinal tree.
20	Anogeisus latifolia	Dhawda	1	Huge tree with whitish bark. Attracts insects while flowering. Planted for restoration.
21	Azadirachta indica	Neem Tree	1	Fast growing, medicinal tree. Religiously important tree.
22	Baringtonia acutangula	Indian oak	1	Good foliage, beautiful red hanging flowers. Planted for shade and beautification
23	Bauhinia purpurea	Kanchan	2	Fast growing tree with beautiful pink-purple flowers. Bird and butterfly attractant.
24	Bombax ceiba	Indian silk cotton tree	2	Tree with Good foliaage and beuatiful red flowers. Flowers are full with nectar which attracts many species of birds.
25	Butea monosperma	Palas	1	Beautiful scarlet flowers, attract many birds. Used in afforestation of saline and waterlogged regions.
26	Cassia fistula	Golden Shower/ Amaltas	1	Fast growing tree. Beautiful yellow hanging flowers. Larval host for butterflies like common emigrant, etc. Fruits are medicinal.
27	Crataeva adansonii	-	1	Tree with good shady foliage and beautiful flowers. It is larval host for butterfly great orange tip, chocolate albatross.
28	Dalbergia sissoo	Sisoo	1	Fast growing tree. Larval host for butterfly Black Rajah.
29	Holoptelea integrifolia	Indian Elm	3	Good shade tree for summer. Pods are edible
30	Putranjiva roxburghii	Putranjiva, Lucky Bean Tree	5	Fast growing tree with drooping branches. Medicinal. Provides roosting place foe birds like sparrows.
31	Thespesia populnea	Indian Tulip Tree/ Bhendi	3	Fast growing, beautiful yellow-brown flowers. It is larval host for butterfly chestnut streaked sailer.
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

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47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	50 kW
	DG set as Power back-up during construction phase	50 kW
	During Operation phase (Connected load):	1240 kW
	During Operation phase (Demand load):	954 kW
	Transformer:	2 x 500 kVA
	DG set as Power back-up during operation phase:	1 x 100 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Energy Saving:
1. Internal Lighting: 117 kW
2. Water Heating: 14 kW
3. Common Area Lighting: 12 kW
4. External / Landscape Area Lighting: 64 kW
5. Parking (Basement + Stilt) Area Lighting: 27 kW
6. Plumbing, Fire, Equipment & Ventilation: 14 kW
7. Lifts & Escalators: 7 kW

Total Saving: 20.91 %

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Internal Lighting	9.70
2	Water Heating	1.16
3	Common Area Lighting	1.00
4	External / Landscape Area Lighting	5.31
5	Parking (Basement + Stilt) Area Lighting	2.24
6	Plumbing, Fire, Equipment & Ventilation	1.16
7	Lifts & Escalators	0.58

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Sewage	Not applicable	Sewage treatment plant – 352 CMD capacity
Biodegradable Waste	Not applicable	Organic Waste Converter (OWC)

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Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	82.07 lakhs
	O & M cost:	23.08 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	Mobile toilets with/ without STP	No. 10 of units for (M& F) workers	2.00
2	Domestic Solid waste	Biodegradable waste	15.00
3	Fugitive emissions	Dust Control measures like water sprinkling and dust suppression curtains	10.00
4	Worker health and safety contingencies	PPE, Acoustic enclosures, fire safety equipment	5.00
5	Environment Monitoring	Ambient Air, Water, Noise, Soil	11.59

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Sewage Treatment Plant	Civil and Equipment Cost along with Operation and Maintenance Cost	67.07	22.03
2	Rain water harvesting	Ground Water Recharge	2.00	0.30
3	Environmental Monitoring	Ambient Air, Water, Noise, Soil	-	7.44
4	Energy saving System	Solar Hot water Heater	50.23	0.50
5	Gardening	Green Belt Development	10.67	1
6	Solid Waste	Solid Waste Management	15	1.5
7	Disaster Management	Emergency response and contingency	111.65	22.33

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

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

52.Any Other Information

No Information Available

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53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	1971.30 m2
	Area per car:	-
	Area per car:	-
	Number of 2-Wheelers as approved by competent authority:	Scooters – 580 , Cycles – 1159
	Number of 4-Wheelers as approved by competent authority:	-
	Public Transport:	-
	Width of all Internal roads (m):	Min. 7.5 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	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-02-2019

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Satisfactory.
Water Budget	Satisfactory.
Waste Water Treatment	Satisfactory.

SEAC-AGENDA-0000000313

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

Brief information of the project by SEAC

PP submitted his application for prior Environmental clearance for total plot area of 10300m2, FSI area of 18804.24 m2, Non FSI area of 6566.76 m2 and total BUA of 25371 m2.

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

SEAC-AGENDA-0000000313

DECISION OF SEAC

PP has satisfactorily complied with the points raised in 91st meeting of SEAC-3.

*SEAC decided to **recommend** the proposal for prior environmental Clearance.*

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

SEAC-AGENDA-0000000313