64 th Meeting of SEAC-3

SEAC Meeting number: 64 **Meeting Date** March 19, 2018

Subject: Environment Clearance for Proposed Residential & Commercial project

Is a Violation Case: No

1.Name of Project	Palladio
2.Type of institution	Green Building
3.Name of Project Proponent	Mr. Sarvesh Vilas Javdekar
4.Name of Consultant	Green Circle Inc.
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	New project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	S. No. 84/1A/1, 84/1A/2, village Tathawade, Tal. Mulshi, Dist. Pune, Maharashtra, Pin code-411033
9.Taluka	Mulshi
10.Village	Tathawade
Correspondence Name:	Mr. Sarvesh Javdekar, M/s Vilas Javdekar Eco Developers Pvt. Ltd.
Room Number:	306
Floor:	3rd floor
Building Name:	Siddharth Towers
Road/Street Name:	Sangam Press Road
Locality:	Near Karishma Housing Society
City:	Pune
11.Area of the project	Pimpri Chinchwad Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	IOD obtained
	IOD/IOA/Concession/Plan Approval Number: BP/Env./Tathawade/04/2017 dated 17/11/2017
	Approved Built-up Area: 60050.18
13.Note on the initiated work (If applicable)	We had earlier applied for Environment Clearance to SEAC III. But as per MoM 2nd SEAC meeting dated 12.12.2013, the case was closed since the total BUA is below 20,000 sq.m . Currently 3 residential buildings (B,C & D) are constructed on site covering total BUA of 19326.93 sq.m. The project has received Final GRIHA 4 star certification .
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	16000
16.Deductions	1441.25
17.Net Plot area	14558.75
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 27743.94
	b) Non FSI area (sq. m.): 32306.24
	c) Total BUA area (sq. m.): 60050.18
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	2686.90
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	18.45
21.Estimated cost of the project	1300000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	P+12	39.50
2	Building B	P+12	37.70
3	Building C	P+12	37.70
4	Building D	P+12	37.70
5	Building E	B+G.LP+G.UP+21	69.85
6	EWS building	P+8	30.65
7	Commercial building	B+G+M	7.10

23.Number of tenants and shops	375 tenements & 15 shops
24.Number of expected residents / users	1875 residents & 212 commercial users = Total 2087 users
25.Tenant density per hectare	286.20
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 DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9.0 m
29.Existing structure (s) if any	Buildings B, C, D & their services
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**	Pimpri-Chinchwad Municipal Corporation (PCMC)
	Fresh water (CMD):	173
	Recycled water - Flushing (CMD):	90
	Recycled water - Gardening (CMD):	15
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	281
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	130
	Excess treated water	132
Wet season:	**Source of water**	Pimpri-Chinchwad Municipal Corporation (PCMC)
	Fresh water (CMD):	173
	Recycled water - Flushing (CMD):	90
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	3
	Total Water Requirement (CMD) :	266
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	130
	Excess treated water	147
Details of Swimming pool (If any)	Size 7.10x13.30x1.20m., Total water requirement= 113 m3 Daily make-up water requirement @3% losses= 3 m3	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	93	188	281	0	3	3	84	152.4	236.4
Gardening	7	8	15	0	0	0	0	0	0
Fresh water requirement	62	111	173	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	Pre Monsoon 7-8 m BGL, Post Monsoon 3-4 m BGL
	Size and no of RWH tank(s) and Quantity:	01 nos. tank- 270 cu.m.
	Location of the RWH tank(s):	South-east side of plot
	Quantity of recharge pits:	4 Nos.
	Size of recharge pits :	5 X 3 X 2 m.
	Budgetary allocation (Capital cost) :	1000000
	Budgetary allocation (O & M cost) :	100000
	Details of UGT tanks if any :	Tank 1= For Buildings B & C= 93.15 cu.m., Tank 2= For Buildings A, D & Fire= 294.1 cu.m. Tank 3= For Buildings E, commercial & EWS= 480.22 cu.m.
35.Storm water drainage	**Natural water drainage pattern:**	From West to East
	Quantity of storm water:	629.2 cu.m./hr
	Size of SWD:	450 mm.
Sewage and Waste water	**Sewage generation in KLD:**	236.40
	STP technology:	MBBR
	Capacity of STP (CMD):	02 Nos. STP- 240 cu.m./day + 30 cu.m./day
	Location & area of the STP:	South-east side of plot, area 195.00 sq.m.
	Budgetary allocation (Capital cost):	9000000
	Budgetary allocation (O & M cost):	1200000

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction waste will be generated from the building, mainly comprising of waste concrete, excavated soil, broken bricks, waste plaster, metallic scrap etc. Debris chute will be used to channelize the waste from the building to the point of pick up on ground.
	Disposal of the construction waste debris:	Construction debris will be used for base preparation of road and for site leveling. Dry waste will be handed over to PCMC Ghantagaadi.
Waste generation in the operation Phase:	**Dry waste:**	439 kg/day
	Wet waste:	606 kg/day
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	5.17 cu.m./day
	Others if any:	52.8 kg/day dry sludge

Mode of Disposal of waste:	**Dry waste:**	PCMC Ghantagaadi/ SWACH
	Wet waste:	Organic Waste Composter
	Hazardous waste:	Not Applicale
	Biomedical waste (If applicable):	Not Applicale
	STP Sludge (Dry sludge):	Used as Manure for landscaping
	Others if any:	Not Applicale
Area requirement:	**Location(s):**	South-east side of plot
	Area for the storage of waste & other material:	15 sq.m.
	Area for machinery:	42.31 sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2000000
	O & M cost:	300000

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	7.6	7.5	5.5-9.0
2	Suspended Solids	mg/l	200	20	<50
3	3 days BOD @ 27degC	mg/l	250	10	<30
4	COD	mg/l	300	75	<100

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	Building A- 62.5 KVA DG set	HSD	1	40	0.1	450 deg C
2	Building B- 62.5 KVA DG set	HSD	2	40	0.1	450 deg C
3	Building C- 62.5 KVA DG set	HSD	3	40	0.1	450 deg C

4	Building D- 62.5 KVA DG set	HSD	4	40	0.1	450 deg C
5	Building E- 180 KVA DG set	HSD	5	70	0.125	450 deg C
6	Commercial Building- 100 KVA DG set	HSD	6	3	0.1	450 deg C
7	Common Area- STP, street lights etc.- 160 KVA DG set	HSD	7	3	0.125	450 deg C

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 :**	1456
	No of trees to be cut :	0
	Number of trees to be planted :	207
	List of proposed native trees :	207
	Timeline for completion of plantation :	151 trees already planted & balance 56 trees will be planted within next 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	Bahunia Purpurea	Kanchan	6	Medicinal & drought tolerant
2	Ficus Benjamina	Nandarukh	13	Tall & dense foliage with good shade
3	Wodyetia bifurcata	Foxtail Palm	12	Avenue plant
4	Ficus Variegated	Ficus Variegata	2	Tall & dense foliage
5	Grevillia Robusta	Silver Oak	3	Shady plant, used as support for creepers
6	Azadirachta Indica	Neem	4	Medicinal
7	Plumeria Alba	Chapha	13	Medicinal, fragrant, bird attracting & fast growing
8	Callistemon	Bottle brush	3	For hot & dry areas, attractive & scented plant
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Spider Lily	0.23	18.32
2	Plumeria Alba	1.6	7.14
3	Nyctanthes Arbortritis	1	10.5

4	Foxtail Palm	2	20
5	Golden Bamboo	0.45	60
6	Hibiscus	0.3	24

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	78.25 KW
	DG set as Power back-up during construction phase	01 nos. X 125 KVA
	During Operation phase (Connected load):	2326.09 KW
	During Operation phase (Demand load):	1067.54 KW
	Transformer:	02 nos. X 630 KVA, 01 nos. X 315 KVA
	DG set as Power back-up during operation phase:	04 nos. X 62.5 KVA, 01 nos. X 180 KVA, 01 nos. X 100 KVA, 01 nos. X 160 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Solar Water Heating Systems @ 125 litres/apartment,
Solar photo voltaic generation panels- 25 KW capacity,
LED lights for common areas,
Timer switches for street lights,
Skylights for podium parking,
Energy efficient pumps

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	44427.8 kWH/annum= 37.77%
2	Energy Saving using Automatic Timer operation Against Manual operation for External & Common Area Lighting	7689.33 kWH/annum= 33.33%
3	Energy Saving using Solar Water Heater Against Electrical water Heater	193440 kWH/annum= 74.29%
4	Energy saving using Low Loss Transformer Against Conventional Transformer	11475.6 kWH/annum= 6.08%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Dust	Not applicable	Water sprinklers
Sewage	Not applicable	Sewage Treatment Plant

Solid waste	Not applicable	Organic Waste Composter
Vehicular	Not applicable	PUC check

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	7800000
	O & M cost:	400000

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 suppression	Sprinklers system	200000
2	Site sanitation, disinfection & safety	Mobile toilets, fumigation, Personal protective equipments	1000000
3	Environment monitoring	Air, noise, water & soil	200000
4	Health checkup	Hospital	200000
5	Environment Management Cell	Formation of cell	400000

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	04 nos. of recharge pits & Rain water harvesting tank of 270 cu.m.	1000000	100000
2	Sewage Treatment Plant	240 KLD + 30 KLD STP	9000000	1200000
3	Organic Waste Composter	606 kg/ day	2000000	300000
4	Tree plantation	207 nos. of trees	1000000	300000
5	Energy Conservation	Solar water heating systems, Solar photo voltaic generation	7800000	400000
6	Environment Management Cell	Comprising of society & technical staff	0	100000
7	Basement ventilation	Exhaust fans	5000000	500000
8	Environment Monitoring	Air, noise, water & soil	0	40

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 located on 24.0 m. wide D.P. road & entrance gate is planned in such a way that vehicular movement on main road will not be affected
Parking details:	**Number and area of basement:**	01 nos.- 2323 sq.m.
	Number and area of podia:	02 nos.- 3463.69 sq.m.
	Total Parking area:	9694 sq.m.
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	798
	Number of 4-Wheelers as approved by competent authority:	204
	Public Transport:	PMPML bus service
	Width of all Internal roads (m):	6
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not Applicable
	Category as per schedule of EIA Notification sheet	8(b)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	The project has obtained Final GRIHA 4-star certification & is a certified Green Building Project
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Residential & Commercial project at S. No. 84/1A/1, 84/1A/2, village Tathawade, Tal. Mulshi, Dist. Pune, Maharashtra, Pin code-411033. by **M/s. Palladio.**

PP submitted their application for prior Environmental clearance for total plot area of 16000 Sq. Mtrs, BUA of 60050.18 Sq. Mtrs and FSI area of 27743.94 Sq. Mtrs. PP proposes to construct 5 nos. of residential buildings, and 1 building for EWS.

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, subject to PP complying with the following conditions.

Specific Conditions by SEAC:

1) PP to upload site specific EMP/DMP On website.
2) PP to explore to increase tree species and plant more local species trees.
3) PP to provide separate OWC for EWS building.
4) PP to upload NOC/undertaking for sewer line connectivity.

FINAL RECOMMENDATION

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

64 th Meeting of SEAC-3

SEAC Meeting number: 64 **Meeting Date** March 19, 2018

Subject: Environment Clearance for Construction Project by M/s.MANTRA INNFRA DEVELOPER LLP

Is a Violation Case: No

1.Name of Project	Mantra Marigold
2.Type of institution	Private
3.Name of Project Proponent	Mr Sailesh Agarwal
4.Name of Consultant	M/s. Ultra-Tech (Environmental Consultancy & Laboratory)
5.Type of project	Residential 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	Not applicable
8.Location of the project	Sr.no.10/4/2 ,10/2/5,10/4/4,10/4/5a ,village Yewlewadi ,taluka haveli , Dist. – Pune.
9.Taluka	Haveli
10.Village	Yewlewadi
11.Area of the project	PMC, Pune
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: Applied
	Approved Built-up Area: 50172.12
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.)	17050.00 m2
16.Deductions	3514.6 m2
17.Net Plot area	13535.40 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 30504.94 m2
	b) Non FSI area (sq. m.): 19667.18 m2
	c) Total BUA area (sq. m.): 50172.12
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	2546.09 m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20%
21.Estimated cost of the project	480000000.00

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	A	2P + 11	37.20 m
2	B	2P + 11	37.20 m
3	C	3P + 14	45.00 m
4	D	3P + 14	45.00 m
5	MHADA	P + 9	28.50 m
6	46MHADA	P + 9	28.50 M

23.Number of tenants and shops	No. of tenants: 577 Nos., No. of shops: 0
24.Number of expected residents / users	2885
25.Tenant density per hectare	338.40 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)	40 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	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	YEWLEWADI GRAMPANCHAYAT
	Fresh water (CMD):	261
	Recycled water - Flushing (CMD):	131
	Recycled water - Gardening (CMD):	20
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	281
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	229

Wet season:	**Source of water**	YEWLEWADI GRAMPANCHAYAT
	Fresh water (CMD):	261
	Recycled water - Flushing (CMD):	131
	Recycled water - Gardening (CMD):	NA
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	261
	Fire fighting - Underground water tank(CMD):	250
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	249
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	261	261	NA	39	39	NA	222	222
Domestic	NA	131	131	NA	131	131	NA	131	131
Gardening	NA	20	20	NA	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	18.00 m. to 24.00 m. BGL.
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	7 Nos.
	Size of recharge pits :	2.0 m. X 2.0 m. X 2.0 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.
	Budgetary allocation (Capital cost) :	7.0 lakhs
	Budgetary allocation (O & M cost) :	0.50 lakhs/ annum
	Details of UGT tanks if any :	Domestic UG tank Capacity (CMD):265 Flushing UG tank Capacity(CMD): 135 Firefighting (CMD): 250

35.Storm water drainage	**Natural water drainage pattern:**	Sloping from South to North
	Quantity of storm water:	16.92 m3/min
	Size of SWD:	600mm dia
Sewage and Waste water	**Sewage generation in KLD:**	353 KLD
	STP technology:	MBBR Technology
	Capacity of STP (CMD):	1 No., 360 KLD capacity
	Location & area of the STP:	Near building D
	Budgetary allocation (Capital cost):	Rs. 104.46 lakhs
	Budgetary allocation (O & M cost):	Rs. 14.00 lakhs/annum

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Debris 7638 m3, 45 kg/d -contruction worker waste
	Disposal of the construction waste debris:	used for back filling
Waste generation in the operation Phase:	**Dry waste:**	389 kd/d
	Wet waste:	909 kg/d
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	53 Kg/day
	Others if any:	NA
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):**	Near Building C
	Area for the storage of waste & other material:	64 m2
	Area for machinery:	64 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	25.75 lakhs
	O & M cost:	5.60 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	attached to DG set	Diesel, 43 lit/hr.	1	5	3	400 0C

40.Details of Fuel to be used

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

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

43.Green Belt Development	**Total RG area :**	990.29 m2 on ground, 602.00 m2 on podium
	No of trees to be cut :	NA
	Number of trees to be planted :	213
	List of proposed native trees :	213
	Timeline for completion of plantation :	within 3 to 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	Cassla grandls	Pink Shower	20	Drought tolerant, ornamental & medicinal plant
2	Michellachampa	Champa	17	Evergreen timber plant, ornamental,
3	Mimusopes elengii	Bakul	10	Evergreen tree, timber yielding and medicinal plant

4	Ficus benjamino	Weeping fig	09	Evergreen tree, timber yielding and medicinal plant
5	Syzygium cumini	Jambul	39	fruit tree & bird attracting
6	Butea monosperma	Flame tree	21	Used in pesticide & dye preparation,
7	Magnifera indica	Mango	21	Evergreen & bird attracting tree
8	Cassis fistula	Golden shower	10	Drought tolerant, ornamental & medicinal plant
9	Saraca indica	Sita Ashok	21	Evergreen medicinal plant
10	Roystinia regia	Royal plam	10	Nitrogen fixer, ornamental plant
11	Manikara zapota	Chikoo	10	Tropical fruit tree & bird attracting tree
12	Neolamarika cadamba	Kadamba tree	07	Tropical fruit tree & bird attracting tree
13	Total	Total	213	Total
14	Existing tree	Neem keep as it is	1	Evergreen medicinal plant
45.Total quantity of plants on ground				

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

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

47.Energy

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.
	During Operation phase (Connected load):	2330 KW
	During Operation phase (Demand load):	1217 KW
	Transformer:	2 Nos., 630 KVA
	DG set as Power back-up during operation phase:	1 No. 250 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Auto Timer control for external & Common lighting
Use of CFL / LED lamps in all public/ common areas.
Solar powered water heating.
Electronic V3F Drives for Elevators
Solar PV Panel power for common area lighting

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar PV Panels	0.29
2	Timer Logic Controller	1.21
3	Electronic VVF drive for Lifts	0.46
4	Solar Water Heater	16.99
5	TOTAL	18.95

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG set Stack	NA	Stack

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	94.83 lakhs
	O & M cost:	2.96 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 ENVIRONMENT	WATER FOR DUST SUPPRESSION Air & Noise monitoring	0.84
2	WATER ENVIRONMENT	tanker water for construction Water monitoring SITE SANITATION	2.22
3	LAND ENVIRONMENT	SITE SANITATION	5.4
4	BIOLOGICAL ENVIRONMENT	Gardening Set up Top soil preservation cost Cost of transplantation of trees	1.55
5	SOCIO- ECONOMIC ENVIRONMENT	DISINFECTION- PEST CONTROL first aid facilites HEALTH CHECK UP Creches for children Personal protective equipment	7.6
6	TOTAL	TOTAL	17.67

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 No. 360 KLD	104.46	14.00
2	OWC	1 No.	25.75	5.60
3	RWH	7 Nos.	7.00	0.50
4	Green Belt	green belt development	15.52	0.25

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:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	1 No. - for gardening 602.11 sq.m
	Total Parking area:	5712.5
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1012 Nos.
	Number of 4-Wheelers as approved by competent authority:	457 Nos.
	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	8a (B2)
	Court cases pending if any	NA
	Other Relevant Informations	NA

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	05-08-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Construction Project at Sr.no.10/4/2 ,10/2/5,10/4/4,10/4/5a ,village Yewlewadi ,taluka haveli , Dist. – Pune. by **M/s.Mantra Innfra Developer LLP.**

DECISION OF SEAC

PP requested for withdrawal of proposal, due to some amendment in the submitted proposal, PP uploaded new proposal dated 16.01.2018 having Unique No. 0000000851. Therefore, PP stated that they would like to withdraw earlier proposal having UID no 498 and consider proposal having UID No. 851 for further appraisal of the project. And request to withdrawal of proposal and pardon our absence.

Committee decided to delist the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

Kindly find SEAC decision above.

64 th Meeting of SEAC-3

SEAC Meeting number: 64 **Meeting Date** March 19, 2018

Subject: Environment Clearance for New construction project by M/s Namrata Construction

Is a Violation Case: No

1.Name of Project	Namrata Gloria
2.Type of institution	Private
3.Name of Project Proponent	Mr.Ravindra Dhondiba Namde
4.Name of Consultant	M/s. Saitech Research & Development Organization
5.Type of project	Residential & 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	S.no.76/2, Behind Water Tank, Mukai Chowk, Ravet
9.Taluka	Haveli
10.Village	Ravet
11.Area of the project	Pimpri Chinchwad Muncipal Carporation
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 21006.60
13.Note on the initiated work (If applicable)	5940.21 (Bldg A P+11)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	1244.34 m2
15.Total Plot Area (sq. m.)	7300.00 m2
16.Deductions	1146.12 m2
17.Net Plot area	6153.88 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** (Resi-Comm.-10228.83 m2) +(MHADA Proposed-1244.34) = 11473.17m2
	b) Non FSI area (sq. m.): 9533.43m2
	c) Total BUA area (sq. m.): 21006.60 m2
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	1516.43m2
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.77 % of Total plot area and 24.64 % of Net Plot Area
21.Estimated cost of the project	523500000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A	P+11	36.00
2	Building B	P+11	36.00
3	Building C	P+10	33.00
4	Building D	P+6	21.00

23.Number of tenants and shops	Total Tenements -232 Nos. Shops = 4 Nos.

24.Number of expected residents / users	Residential Users: 1160 Nos. Commercial Users: 24 Nos. Total Users: 1184 Nos.
25.Tenant density per hectare	226.9
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 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

Dry season:	**Source of water**	PCMC
	Fresh water (CMD):	167.66
	Recycled water - Flushing (CMD):	60.86
	Recycled water - Gardening (CMD):	5.66
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	106.80
	Fire fighting - Underground water tank(CMD):	250.00
	Fire fighting - Overhead water tank(CMD):	70.00
	Excess treated water	84.94

Wet season:	**Source of water**	PCMC
	Fresh water (CMD):	162.00
	Recycled water - Flushing (CMD):	60.86
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	106.80
	Fire fighting - Underground water tank(CMD):	250.00
	Fire fighting - Overhead water tank(CMD):	70.00
	Excess treated water	90.60
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:**	10 m BGL
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	10 Noâ??s.
	Size of recharge pits :	2M X 2M X 2M
	Budgetary allocation (Capital cost) :	5.00 Lakh
	Budgetary allocation (O & M cost) :	0.5 Lakh/Year
	Details of UGT tanks if any :	Domestic UG tank Capacity :158.00 m3 Flushing UG tank Capacity: 83.00 m3 Fire UG tank Capacity : 250.00 m3

35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	3.54 m3/day
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	145.80 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1 NOS. 150 m3/day
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	43.00 lakh
	Budgetary allocation (O & M cost):	9.92 Lakh/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:	Use for Leveling
Waste generation in the operation Phase:	**Dry waste:**	236.00 kg/day
	Wet waste:	349.00 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	11.00 kg/day
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	SWACH
	Wet waste:	OWC
	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:	33 m2
	Area for machinery:	15 m2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	15.25 Lakh
	O & M cost:	3.44 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- 125 KVA	HSD	1	1.0 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	20 Lit/Hr	20 Lit/Hr

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 :**	683.77 m2
	No of trees to be cut :	-
	Number of trees to be planted :	88 nos.
	List of proposed native trees :	-
	Timeline for completion of plantation :	Mid of constuction

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	Psidium guajava	Guava	6	Fruit trees attracting butterflies.
2	Manilkara zapota	Chikku	6	Fruit trees attracting butterflies and birds.
3	Ficus retusa	Nandruk	12	Medium sized evergreen tree, shady tree.

4	Cassia fistula	Bahava	16	Medium sized deciduous tree and butterfly host plant.
5	Nycatanthes arbor-tristis	Parijatak	14	Deciduous fast growing tree, beautiful flowers.
6	Citrus spp.	Lemaon	5	Butterfly host plant fragrance tree.
7	Michelia champaca	Chapha	13	Evergreen tree, fragrant flowers, Butterfly host plant.
8	Lagerstroemia flosregineae	Tamhan	16	Stat flower tree of Maharashtra, medium sized tree, beautiful purple 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	-	-	-

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	40 KVA - 1 No.
	During Operation phase (Connected load):	933.45 KW
	During Operation phase (Demand load):	507.97 KW
	Transformer:	630 KVA -1 NOS.
	DG set as Power back-up during operation phase:	125 KVA -1 NOS
	Fuel used:	20 Lit/Hr.
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

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.
We are planning to keep power factor of the common load installation near unity.
Following are the Energy efficient fixtures should be used in our project for energy conservation :-
Energy efficient LED fixtures are proposed for parking area of all buildings.
LED lighting fixtures are proposed for general lighting for common passages, st

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total Energy Saved Using LED	19.27 KW/ day
2	Total Energy Saved From External Lighiting	1.30 KW/ day

3	Total KW Saved by Solar Water Heater	348.00 KW/ day

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	-	Green belt will be provided.
Water	-	STP will be installed & excess treated water used for flushing & gardening
Noise	-	Noise monitoring will be done in once a fortnight. Traffic management plan to be prepared. Acoustically enclosed DG set will be brought & installed.
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:**	11.48 Lakh
	O & M cost:	0.5 Lakh/year

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	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 â??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 for Residential	43.00	9.92
2	RWH	Rain Water Harvesting	5.00	0.50
3	MSW	Muncipal Solid Waste	15.25	3.44
4	Solar PV Panel	Solar PV Panel	59.50	2.38
5	Energy System	Energy System	11.48	0.50
6	Landscaping	Landscaping	13.09	1.80
7	Safety Equipments	Safety Equipments	10.00	2.00
8	Post EC Monitoring	Post EC Monitoring	-	2.50
9	Dry Waste management	Dry Waste management	-	13.92

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:	NA
	Total Parking area:	5605.80 m2
	Area per car:	46.69 m2
	Area per car:	46.69 m2
	Number of 2-Wheelers as approved by competent authority:	479
	Number of 4-Wheelers as approved by competent authority:	120
	Public Transport:	NA
	Width of all Internal roads (m):	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	B2
	Court cases pending if any	NA
	Other Relevant Informations	NA

	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	23-11-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for New construction project at S.no.76/2, Behind Water Tank, Mukai Chowk, Ravet by **M/s Namrata Construction**.

DECISION OF SEAC

PP remained absent.hence committee decided to defere the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

64 th Meeting of SEAC-3

SEAC Meeting number: 64 **Meeting Date** March 19, 2018

Subject: Environment Clearance for Environmental Clearance for "THE KING'S WAY" – Amendment in Proposed Housing Project by Shree Venkatesh Constructions Promoters & Developers, Shree Venkatesh Creators Promoters & Developers at S. No 67A/6A, 67A/8A, 67A/8B at Ghorpadi, Tal: Haveli, Dist: Pune.

Is a Violation Case: No

1.Name of Project	"THE KING'S WAY" – Amendment in Proposed Housing Project by Shree Venkatesh Constructions Promoters & Developers, Shree Venkatesh Creators Promoters & Developers at S. No 67A/6A, 67A/8A, 67A/8B at Ghorpadi, Tal: Haveli, Dist: Pune.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Aditya Gadiya
4.Name of Consultant	J M EnviroNet Pvt Ltd- Sayali Jagtap(EIA Co-ordinator-9960159156)
5.Type of project	Housing project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. EC letter no. SEAC-III-2015/CR-33/TC-3 dated 17.03.2015
8.Location of the project	S.No. 67A/6A, 67A/8A, 67A/8B, Ghorpadi
9.Taluka	Haveli
10.Village	Ghorpadi
Correspondence Name:	Sayali Jagtap
Room Number:	F3
Floor:	First floor
Building Name:	Dindayal nagar
Road/Street Name:	Medical college road
Locality:	Katraj
City:	Pune
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Received
	IOD/IOA/Concession/Plan Approval Number: CC-2802/17 dated 24.01.2018
	Approved Built-up Area: 26464.36
13.Note on the initiated work (If applicable)	Total constructed area : 19142.46 Sq.m as per old EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	14100 Sq.m
16.Deductions	2556.26 Sq.m
17.Net Plot area	11443.74 Sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 14726.38 sq. m
	b) Non FSI area (sq. m.): 11737.98 sq. m
	c) Total BUA area (sq. m.): 26464.36
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** 14726.38 sq. m
	Approved Non FSI area (sq. m.): 11737.98 sq. m
	Date of Approval: 24-01-2018
19.Total ground coverage (m2)	2247.11 sq. m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	19.63 %
21.Estimated cost of the project	30000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building A1	2 Parking + 12 floors	41.66 m
2	Building A2	2 Parking + 12 floors	41.66 m
3	Building A3	2 Parking + 12 floors	41.66 m
4	Building A4	Parking + 1 floors	9.06 m
5	Building A5	Parking + 6 floors	20.94 m
6	Club house	Ground +1 floors	7.6 m

23.Number of tenants and shops	Residential : 193
24.Number of expected residents / users	Residential : 965 nos
25.Tenant density per hectare	687.94 per 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)	Width of right of way 18 m from nearest fire station at Cantonment, Shankar seth road, Pune
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	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	92
	Recycled water - Flushing (CMD):	44
	Recycled water - Gardening (CMD):	25
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	161
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	47.24
Wet season:	**Source of water**	Pune Municipal Corporation
	Fresh water (CMD):	92
	Recycled water - Flushing (CMD):	44
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	136
	Fire fighting - Underground water tank(CMD):	150
	Fire fighting - Overhead water tank(CMD):	20
	Excess treated water	72.24
Details of Swimming pool (If any)	Not Applicable	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	4 to 6 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:	6 nos.
	Size of recharge pits :	2 x 2 x 2 m
	Budgetary allocation (Capital cost) :	Rs. 6,00,000 /-
	Budgetary allocation (O & M cost) :	Rs. 1,20,000 /-
	Details of UGT tanks if any :	Domestic : 137.77 Cum Flushing : 65.13 Cum Fire : 150 cum
35.Storm water drainage	**Natural water drainage pattern:**	East to west
	Quantity of storm water:	29.12 cum per min.
	Size of SWD:	450 mm
Sewage and Waste water	**Sewage generation in KLD:**	122 KLD
	STP technology:	SMBR Technology
	Capacity of STP (CMD):	135 KLD
	Location & area of the STP:	157.56 sq. m
	Budgetary allocation (Capital cost):	Rs. 37,25,000 /-
	Budgetary allocation (O & M cost):	Rs. 8,50,000 /-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	30 kg/day
	Disposal of the construction waste debris:	For site filling
Waste generation in the operation Phase:	**Dry waste:**	101.85 kg/day
	Wet waste:	237.65 kg/day
	Hazardous waste:	Negligible
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	9 kg/day
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Handover to SWACH, Pune
	Wet waste:	Treat through OWC
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Near Building A1
	Area for the storage of waste & other material:	30 Sq.m
	Area for machinery:	10 Sq.m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 8,44,600 /-
	O & M cost:	Rs. 1,12,000 /-

37.Effluent Charecterestics

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

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

43.Green Belt Development	**Total RG area :**	Total RG area : 4065 sq. m RG on ground- 2490 Sq. m RG on podium – 1575 Sq. m
	No of trees to be cut :	0
	Number of trees to be planted :	0
	List of proposed native trees :	On ground : 224 nos. ; On Podium : 54 nos.
	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	Ailanthus excelsa	Maharukh	39	Large tree, good for roadside plantation, common in hotter parts in India.
2	Azadirachta indica	Neem	13	A medium to large size hardy tree that stand in drought conditions. Attain a much larger size in dry regions.
3	Acacia auriculiformis	Ear leaf Acacia	23	A medium size tree widely grown along roads, grows in warm climate under both dry and moist conditions.
4	Ficus benghalensis	Banyan tree	01	Large, evergreen shady tree
5	Spathodia campanulata	Pitchkari	16	Large tree with beautiful orange flowers, good for roadside plantation
6	Mimosops elengi	Bakul	08	Medium sized evergreen tree, good for roadside plantation.
7	Lagerstroemia flos-reginae	Taman/ Jarul	42	State flower tree of Maharashtra, Medium sized tree, beautiful purple flowers
8	Jacaranda mimosifolia	Jacaranda	03	Medium sized gracious deciduous flowering tree which prefers moderate climate.
9	Putranjiva roxburghii	Putranjiva/ Patangi	19	Shady tree with red- yellow flowers.
10	Khaya senghalis	Khaya	14	Large roadside tree.
11	Cassia fistula	Bahava	13	Small deciduous tree. Excellent flowering tree for arid regions.
12	Bombax ceiba	Katesavar	02	Large deciduous tree, flowers attract many birds.
13	Cryota urens	Fish tail palm/ Bherli mad	20	Tall evergreen tree
14	Butea monosperma	Palas	02	Small deciduous. Good for roadside plantation.
15	Erythrina indica	Pangara	05	Medium sized deciduous tree. Bright scarlet flowers.
16	Bauhinia racemosa	Apta	24	Small hard tree.

17	Albizzia lebbeck	Shirish	13	Shady Large tree, ball shaped flowers.
18	Michella champaca	Sonchafa	02	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant.
19	Plumeria alba	Champa	26	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
1	Plumeria alba	0.45 m c/c	33.14 Sq.m
2	Lagerstroemia flos- reginae	0.60 m c/c	12.93 sq. m
3	Cryota urens	0.45 m c/c	9.26 sq. m

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	10 KW
	DG set as Power back-up during construction phase	15 kVA
	During Operation phase (Connected load):	1028.77 KW
	During Operation phase (Demand load):	692.69 kW
	Transformer:	630 kVA & 160 kvA
	DG set as Power back-up during operation phase:	140 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Solar Hot water system
Solar PV Panels

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Energy efficient LED fixtures for parking area & common area + Solar Hot water system + Solar PV panels	6.19 %

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. 38,53,900 /-
	O & M cost:	Rs. 1,97,495 /-

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. 37,25,000 /-	Rs. 8,50,000 /-
2	Rain Water Harvesting	6 nos. of pits	Rs. 6,00,000 /-	Rs. 1,20,000 /-
3	Solid Waste Management	1 OWC	Rs. 8,44,600 /-	Rs. 1,12,000 /-
4	Green Belt Development	278 nos. of trees	Rs. 89,00,000 /-	Rs. 85,000 /-
5	Electrical System	DG + Solar system	Rs. 38,53,900 /-	Rs. 1,97,495 /-
6	Environmental Monitoring	Environment management	-	Rs. 1,20,000/-

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:	The project has direct access from the existing 8 m B T Kawade road connected to 18 m Pune- Solapur Highway.

Parking details:	**Number and area of basement:**	No
	Number and area of podia:	1887.63 Sq.m
	Total Parking area:	10,108 sq. m
	Area per car:	30 m
	Area per car:	30 m
	Number of 2-Wheelers as approved by competent authority:	Scooters : 399 , cycles : 390
	Number of 4-Wheelers as approved by competent authority:	317 nos
	Public Transport:	PMC city buses
	Width of all Internal roads (m):	6.00 m
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	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	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	08-12-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Environmental Clearance for Proposed Housing project THE KINGS WAY " at S.No. 67A/6A, 67A/8A, 67A/8B, Ghorpadi by **M/s. Shree Venkatesh Constructions Promoters & Developers**.

PP submitted their application for prior Environmental clearance for expansion of the previous EC (letter no .SEAC-III-2015/CR-33/TC-3) dated 17.03.2015 having total plot area of 14100 Sq. Mtrs, BUA of 26464.38 Sq. Mtrs and FSI area of 14679.96Sq. Mtrs. PP proposes to construct 5 nos. of residential buildings, and 1 Club house.

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, subject to PP complying with the following conditions.

Specific Conditions by SEAC:

1) PP to upload all six month compliance report on website.
2) PP to upload undertaking for alternative water supply.
3) PP to increase STP capacity i.e. up to 135 KLD.

FINAL RECOMMENDATION

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

64 th Meeting of SEAC-3

SEAC Meeting number: 64 **Meeting Date** March 19, 2018

Subject: Environment Clearance for for project by M/s Monotype Grihanirman Pvt. Ltd.

Is a Violation Case: No

1.Name of Project	TechPoint
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajkumar Sarda
4.Name of Consultant	M/s Saitech Research & Development Organization
5.Type of project	Commercial
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 12, H no 1/1+1/2C, Opposite Lafarge Concrete Plant, Solapur By-pass Road, Kharadi, Tehsil-Haveli, Dist-Pune-411014.
9.Taluka	Haveli
10.Village	Kharadi
11.Area of the project	Pune Municipal Corporation
12.IOD/IOA/Concession/Plan Approval Number	Applied
	IOD/IOA/Concession/Plan Approval Number: -
	Approved Built-up Area: 37441.19
13.Note on the initiated work (If applicable)	19040 m2
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	6866.11
16.Deductions	Deductions – 921.11 (780 m2 open space +141.11 m2 Nala)
17.Net Plot area	5945.00
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 17636.13
	b) Non FSI area (sq. m.): 19805.06
	c) Total BUA area (sq. m.): 37441.19
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	2509.00
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	36.54 % of Total plot area & 42.20% of Net plot area
21.Estimated cost of the project	916000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	IT Building	LB+UB+GR+6	29.55

23.Number of tenants and shops	Offices - 14 Nos
24.Number of expected residents / users	Office Users: 3109 Nos. Driver: 36 Nos. Visitors: 311 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)	45 m wide DP road
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	PMC
	Fresh water (CMD):	218.50 (One Time)
	Recycled water - Flushing (CMD):	49.00
	Recycled water - Gardening (CMD):	7.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	97.50
	Fire fighting - Underground water tank(CMD):	100.00
	Fire fighting - Overhead water tank(CMD):	20.00
	Excess treated water	4.10

Wet season:	**Source of water**	PMC
	Fresh water (CMD):	211.50 (One Time)
	Recycled water - Flushing (CMD):	49.00
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	97.50
	Fire fighting - Underground water tank(CMD):	100.00
	Fire fighting - Overhead water tank(CMD):	20.00
	Excess treated water	11.10
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:**	Pre Monsoon- 6.15 m BGL,Post Monsoon- 3.15 m BGL
	Size and no of RWH tank(s) and Quantity:	50 m3
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	9 Nos.
	Size of recharge pits :	2 m. X 2 m. X 2 m
	Budgetary allocation (Capital cost) :	Rs 3.00 Lakh
	Budgetary allocation (O & M cost) :	Rs. 0.40 Lakh /Year
	Details of UGT tanks if any :	Domestic UG tank Capacity : 146.25 m3 Flushing UG tank Capacity : 83.00 m3 Fire UG tank Capacity : 100.00 m3

35.Storm water drainage	**Natural water drainage pattern:**	-
	Quantity of storm water:	6.34 m3 /Min
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	131.85
	STP technology:	MBBR
	Capacity of STP (CMD):	139.00
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	Rs.35.00 Lakh
	Budgetary allocation (O & M cost):	Rs 6.94 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:**	518.00 kg/day
	Wet waste:	346.00 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	11.84 kg/day
	Others if any:	NA
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:	NA
Area requirement:	**Location(s):**	-
	Area for the storage of waste & other material:	45 M2
	Area for machinery:	15 M2
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 14.75 Lakh
	O & M cost:	Rs. 3.04 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-1.0 MVA- 3 Nos.	HSD-110 Lit/hrs	S-1,S-2,S-3	32.55	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	110 Lit/hrs	110 Lit/hrs
41.Source of Fuel		Hindustan petroleum corporation limited/Bharat Petroleum		
42.Mode of Transportation of fuel to site		By Roadway		

43.Green Belt Development	**Total RG area :**	780.00 m2
	No of trees to be cut :	NA
	Number of trees to be planted :	104 Nos.
	List of proposed native trees :	-
	Timeline for completion of plantation :	Mid of construction

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Cassia fistula	Golden Shower	03	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
2	Pongamia pinnata	Karanj	11	Shady tree.
3	Syzygium cumini	Jamun	03	Fruit tree
4	Mangifera indica	Mango	03	Shady fruit tree.

5	Michelia Champaca	Son Chapha	22	Medium sized evergreen tree, Shady tree. fragment flower
6	Manilkara zapota	Chikku	04	Fruit tree
7	Casuarina equisetifolia	Whistling tree	16	It is an evergreen tree with a soft wispy pine-like appearance
8	Cordea subestina	Scarlet Cordia	02	Ornamental, flowering tree
9	Lagerstroemia flosregineae	Crape Myrtle	03	State flower tree of Maharashtra Medium sized tree, beautiful purple flowers
10	Tabebuia argentia	Golden Bell	02	The nectar of Tabebuia flowers is an important food source for several species of bees
11	Tabebuia rosea	Trumpet tree	02	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.
12	Bauhinia blakeana	Kanchan	06	This is a very popular ornamental tree in subtropical and tropical climates, grown for its scented flowers and also used as food item
13	Spathodia	Pichkari tree	07	This tree is planted extensively as an ornamental tree and is much appreciated for its very showy reddish-orange or crimson
14	Anthocephallus cadamba	Kadam	03	Shady, large tree, ball shaped flowers
15	Thevetia peruviana	Yellow Oleander	08	Evergreen Tropical shrub or small tree bears yellow trumpet like flowers.
16	Terminalia catappa	Khota Badam	09	Shady tree
17	Over and above- Roystonia regia	Royal palm	09	Ornamental plant
18	Wodytia bifurcata	Foxtail palm	10	Ornamental plant
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	49 KW
	DG set as Power back-up during construction phase	125 KVA
	During Operation phase (Connected load):	3685.09 KW
	During Operation phase (Demand load):	2335.26 KW
	Transformer:	1.5 MVA – 2 Nos
	DG set as Power back-up during operation phase:	1.0 MVA – 3 Nos
	Fuel used:	110 Liters/Hr.
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Replacing T8 fitting in stair case with T5.
Replacing 2 x 18W Down lighter in lift lobby with 24W LED.
Replacing 70W MHL Street lights with 24W LED.
Providing 20% of Street lights on solar.
Replacing normal lighting with LED for Landscape.
Using VFD's for Lift machines, we can save 10% of consumption.
By using Energy efficient motors, we can save 10% of energy.
By using Energy efficient motors, we can save 10% of energy.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Landscape Lighting (LED Lighting instead of Normal)	20.00%
2	VFD's on Lifts	10.00%
3	External Lighting (Solar as well LED instead of Metal Halide)	31.429%
4	Plumbing Plant room pumps	10.00%
5	STP	10.00%
6	Building(Lift lobby, Staircase)	43.76%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	-	Green belt will be provided.
Water	-	STP will be installed & excess treated water used for flushing & gardening
Noise	-	Noise monitoring will be done in once a fortnight. Traffic management plan to be prepared. Acoustically enclosed DG set will be brought & installed.

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 64.21 Lakh
	O & M cost:	Rs 12.84 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	1.00 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	STP	-	35.00	6.94
2	RWH	-	3.00	0.40
3	MSW	-	14.75	3.04
4	Energy System	-	64.21	12.84
5	Solar PV Panel	-	40.00	1.60
6	Landscaping	-	55.35	6.00
7	Safety Equipment	-	10.00	2.00
8	Post EC Monitoring	-	-	2.50
9	Dry Waste Management	-	-	1.00

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

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

52.Any Other Information

No Information Available		
53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	-
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	11676.60 m2
	Area per car:	38.40 m2
	Area per car:	38.40 m2
	Number of 2-Wheelers as approved by competent authority:	752
	Number of 4-Wheelers as approved by competent authority:	304
	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
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS		
Summorised in brief information of Project as below.		
Brief information of the project by SEAC		

Environment Clearance for for project at Survey no 12, H no 1/1+1/2C, Opposite Lafarge Concrete Plant, Solapur By-pass Road, Kharadi,Tehsil-Haveli, Dist-Pune-411014 by **M/s Monotype Grihanirman Pvt. Ltd.**

DECISION OF SEAC

PP remained absent,hence committee decided to defer the proposal.

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

64 th Meeting of SEAC-3

SEAC Meeting number: 64 **Meeting Date** March 19, 2018

Subject: Environment Clearance for Proposed Residential Project "Optima Heights "

Is a Violation Case: No

1.Name of Project	Optima Heights
2.Type of institution	Private
3.Name of Project Proponent	Mr. Prithviraj P. Solanke
4.Name of Consultant	VK:e environmental LLP , Pune
5.Type of project	Group 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	Yes
8.Location of the project	Gat no 459(part)+460(part)+461+462(part) Village – Kesnand, Taluka - Haveli,, District-Pune , Maharashtra, Pune.
9.Taluka	Haveli
10.Village	Kesnand
Correspondence Name:	NA
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	NA
Locality:	NA
City:	NA
11.Area of the project	PMRDA
12.IOD/IOA/Concession/Plan Approval Number	CC_388/17-18
	IOD/IOA/Concession/Plan Approval Number: CC no_388/17-18
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	As per EC received , Construction of 24277.6 sq.m has been done
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	38800
16.Deductions	.....
17.Net Plot area	27919.86
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 46976.41
	b) Non FSI area (sq. m.): 39892.37
	c) Total BUA area (sq. m.): 86868.78
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	8563.46
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	30.67 % On net plot area
21.Estimated cost of the project	1383800000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	B Building	G+12	37.20
2	C Building	G+12	37.70
3	D Building	G+12	37.70
4	Club House 1	P+2	10.95
5	E Building	G+P+14	44.50
6	F Building	B+G+P+14	44.50
7	G Building	B+G+P+16	50.20
8	Club House 2	P+2	10.95

23.Number of tenants and shops	804
24.Number of expected residents / users	4020
25.Tenant density per hectare	207
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 Mtr. wide (Nearest Fire Station - Yerawada fire station)
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 mtr
29.Existing structure (s) if any	As per EC received , Construction of 24277.6 sq.m has been done_Building B,C,D and club house 1 has been completed .
30.Details of the demolition with disposal (If applicable)	Temporary sheds for housing of labours and material storage will be demolished during construction phase

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**	Kesnand Grampanchayat
	Fresh water (CMD):	372
	Recycled water - Flushing (CMD):	181
	Recycled water - Gardening (CMD):	18
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	571
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	220
	Excess treated water	274
Wet season:	**Source of water**	Kesnand Grampanchayat
	Fresh water (CMD):	372
	Recycled water - Flushing (CMD):	181
	Recycled water - Gardening (CMD):	00
	Swimming pool make up (Cum):	00
	Total Water Requirement (CMD) :	553
	Fire fighting - Underground water tank(CMD):	300
	Fire fighting - Overhead water tank(CMD):	220
	Excess treated water	292
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

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

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	6-8 m bgl
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	4 recharge pits and 4 recharge shafts
	Size of recharge pits :	1.2m x1.2m x4 m
	Budgetary allocation (Capital cost) :	1300000
	Budgetary allocation (O & M cost) :	230000
	Details of UGT tanks if any :	Total Capacity of UGWT FOR B,C,D Building =(Capacity 450 m3) Total Capacity of UGWT FOR E,F,G Building=(Capacity 455 m3)
35.Storm water drainage	**Natural water drainage pattern:**	NA
	Quantity of storm water:	14892.84 m3/year
	Size of SWD:	300 mm
Sewage and Waste water	**Sewage generation in KLD:**	498
	STP technology:	STP 1_Phytorid Technology , STP 2_MMBR Technology
	Capacity of STP (CMD):	2 no. of STP .& capacity of STP 1_ 225 KLD , STP 2_370 KLD
	Location & area of the STP:	STP 1 is in Phase 1 _near D building and STP 2 is in phase 2 near G building _Total Area is 385 sqm
	Budgetary allocation (Capital cost):	16833000
	Budgetary allocation (O & M cost):	1465000
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	20 kg /day (Dry + Wet)
	Disposal of the construction waste debris:	The entire construction waste will be used within the site for laveling purposes and base course preparation of internal approach roads .
Waste generation in the operation Phase:	**Dry waste:**	804 kg/day
	Wet waste:	1206 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	Na
	STP Sludge (Dry sludge):	46.10 kg /day
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Handed over to authorized recycler for further handling & disposal purpose .
	Wet waste:	Wet waste will be treated on onsite OWC
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Will be Used as manure
	Others if any:	NA
Area requirement:	**Location(s):**	Machine 1= Near D building , Machine 2=Near G building.
	Area for the storage of waste & other material:	100 sqm.
	Area for machinery:	Machine 1= 3 m x4 m, Machine 2=3 m x 4m
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	4725000
	O & M cost:	1123000

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 DG set of 82.5 KVA	At 100% load 11.53 ltr /hr	1	2	10 cm	500 deg. celsius
2	1 DG set of 100 KVA	At 100% load 18.4 ltr /hr	1	2.5	10 cm	553 deg. celsius

40.Details of Fuel to be used

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

41.Source of Fuel	Near fuel pump
42.Mode of Transportation of fuel to site	By Road

43.Green Belt Development	**Total RG area :**	3274.42
	No of trees to be cut :	00
	Number of trees to be planted :	166
	List of proposed native trees :	Refer Below list:
	Timeline for completion of plantation :	Till 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	Bauhinia	Kanchan	05	Large Flowers ,Large, Evergreen
2	Couroupita guianesis	Kailaspati	06	-
3	Erythrina Indica	Pangara	06	Medium sized deciduous tree, Bright scarlet flowers
4	Casia Fistula	Bahava	06	Medium sized deciduous tree, beautiful yellow flowers, butterfly host plant
5	Citrus reticulate	Santra	04	Medium sized fruit bearing tree
6	Psidiun Guajava	Peru	06	Small evergreen tree good for roadside plantation
7	Azadiracta Indica	Neem	28	Large tree fruit bearing , Good for roadside plantation
8	Mimusops Elengi	Bakul	06	large tree good for roadside plantation
9	Cassia glauca	cassia	06	Tall shrub with yellow flowers
10	Bauhinia Blackania	Hong kong Orchid	14	Large deciduous tree ,flowers attracts many birds
11	Dillenia Indica	Karmal	06	Large deciduous tree.
12	Bauhinia recemosa	Apta	06	Ornamental tree
13	Albizzia Lebbek	Shirish	41	Shady, Large tree
14	Butea monosperma	Palas	16	Small deciduous tree, Dark orange coloured flower
15	Nyctanthes arbortristis	Parijatak	06	Small deciduous tree, small white coloured
16	Anthocephalus cadamba	Kadamb	05	Shady, large tree, ball shaped flowers
17	Lagerstromia Speciosa	Tamhan	60	STATE FLOWER TREE of maharashtra , medium size tree , beautiful purple coloured flower coloured
18	Michelia Champaka	Pivala Chafa	06	Medium sized evergreen tree , Fragrant yellow flowers , butterfly host plant
19	Swetania Mohagani	Mohagani	06	Medium sized evergreen tree

20	Saraka Indica	Sita Ashoka	05	Evergreen Medicinal Plant
21	Pterospermum acerifolium	Mukund	03	Medium sized evergreen tree. fragrant flowers
22	Mangifera Indica	Mango	11	Small Deciduous fruit bearing tree
23	Peltophorum afracanum	Copper pod tree	06	Tall deciduous tree, good for roadside plantation
24	Syzygium cumini	Jambhul	06	Large tree with large spreading crown
25	Terminalia arjuna	Arjun	06	Large deciduous tree.Large spreading crown
26	Boringtonia Acutangula	Newer	06	Evergreen tree , medicinal plant
27	Sara Indica	-	30	A Large size trees with large foliage provide shade along road , wood is water resistant
28	Millingtonia Hortensis	Indian cork tree	34	A coloumner , evergreen tree grows well in both dry and moist regions
29	Jacaranda mimosifolia	Jacaranda	27	Medium size gracious deciduous, flowering treewhich prefers moderate climate
30	Terminalia Catappa	Badam	20	Tall deciduous , fruit bearing
31	Casia Fistula	golden Shower	21	Small hardy 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)	22 KW
	DG set as Power back-up during construction phase	1 nos. X 35 KVA
	During Operation phase (Connected load):	3305.74 KW
	During Operation phase (Demand load):	1764.07 KVA
	Transformer:	2nos. X 315 KVA +2nos. X 630 KVA
	DG set as Power back-up during operation phase:	1 nos. X 82.5 KVA+1 nos. X 100 KVA
	Fuel used:	LSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

Solar energy

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar hot water	46%
2	Light fitting and Timer saving	60%
3	Solar PV Panel System	15%
4	Total Project saving	17%

50.Details of pollution control Systems

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

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	7891000
	O & M cost:	704000

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	4.68
2	Land	Labour camp toilets & sanitation	4.8
3	Health and safety	Health check up & Disinfection	0.45
4	Environment Management	Environment management cell	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	Sewage treatment plant	02 STP 's (Phytorid +MMBR)	168.33	14.65
2	Organic waste management	2 OWC Machine	47.25	11.23
3	Landscaping	Development and Maintenance	10.86	0.87
4	Rain water harvesting	4 recharge pits+ 4 Recharge Shafts	13	2.3
5	Energy	Hot Water , PV panels for Street Light	78.91	7.04
6	Environment 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

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site abuts a 15 m wide road, which connects to the SH27 Pune-Aurangabad Road .9 m internal roads for easy access of fire tender movement are proided
Parking details:	**Number and area of basement:**	1 no of basement and area is 2375.05 sqm
	Number and area of podia:	1 no of Podium and area is 3569.13 sqm
	Total Parking area:	21620.62
	Area per car:	12.5
	Area per car:	12.5
	Number of 2-Wheelers as approved by competent authority:	1260
	Number of 4-Wheelers as approved by competent authority:	330
	Public Transport:	NA
	Width of all Internal roads (m):	9 m wide internal road is provided. 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	8a building and construction project
	Court cases pending if any	NA
	Other Relevant Informations	As per ec received building B,C,D and club house 1 has been completed on site and building E,F,G and club house 2 .for proposed expansion .

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

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Summorised in brief information of Project as below.

Brief information of the project by SEAC

Environment Clearance for Proposed Residential Project “Optima Heights ”at Gat no 459(part)+460(part)+461+462(part) Village – Kesnand, Taluka - Haveli,, District-Pune ,Maharashtra, Pune.by **Optima Heights.**

PP submitted their application for prior Environmental clearance for expansion of the previous EC having total plot area of 27919.86 Sq. Mtrs, BUA of 86868.78 Sq. Mtrs and FSI area of 46976.41 Sq. Mtrs. PP proposes to construct 6 nos. of residential buildings, and 2 nos club house.

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, subject to PP complying with the above conditions.

Specific Conditions by SEAC:

1) PP to upload undertaking for assured water supply.
2) PP to submit plan for OWC collection and waste management.
3) PP to submit terrace plan for installing solar panels& calculations of energy saving.
4) PP to upload parking layout plan.

FINAL RECOMMENDATION

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