


Agenda of 76th (Part-A) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 76th (Part-A) Meeting Date November 1, 2018

Subject: Environment Clearance for Expansion and amendment in EC for Residential Development with Mall & Multiplex at L.B.S. Marg, Mulund (W), Mumbai.

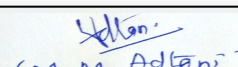
Is a Violation Case: No

1.Name of Project	Residential Development with Mall & Multiplex
2.Type of institution	Private
3.Name of Project Proponent	M/s. Nirmal Lifestyle Developers Private Limited
4.Name of Consultant	M/s. Ultra-Tech
5.Type of project	Residential Development with Mall & Multiplex
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion & Amendment in EC
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	This project has received Environmental Clearance vide No. 21-370/2006-1A-III for Commercial Complex from Ministry of Environment and Forests (I.A Division) dt. 29.12.2006. As per the provisions of EIA Notification, 1994 by which the validity for this EC is for a period of 5 years for commencement of construction. This is further clarified in the Para 9 of the Notification dt. 21.08.2013 by MoEF & CC. Hence it is apparent that the clause of validity in our case is for commencement of construction and not from the commencement of construction. We would like to mention that we have commenced the construction work within 5 years i.e. the same can be verified with Commencement Certificate (CC) received from MCGM dt. 03.01.2007.
8.Location of the project	CTS No. 706-B/A, 706-B/B, 706-B/C, 706-B/D, 706-B/E, 706-B/F, 706-B/G, 706-B/H & 706-B/J, 710 A, 712 A, 762 A, 763 A
9.Taluka	Mumbai
10.Village	Nahur
Correspondence Name:	M/s. Nirmal Lifestyle Developers Private Limited
Room Number:	--
Floor:	3rd Floor
Building Name:	Multiplex Building
Road/Street Name:	L.B.S. Marg
Locality:	--
City:	Mulund
11.Area of the project	Municipal Corporation of Greater Mumbai (M.C.G.M.)
12.IOD/IOA/Concession/Plan Approval Number	Received approval from MCGM. dated 21.01.2008 IOD/IOA/Concession/Plan Approval Number: CE/4813/BPSES/AT Approved Built-up Area: 19460.53
13.Note on the initiated work (If applicable)	Total constructed work on site till date (FSI + Non FSI): 70,431.75 Sq. mt. There are 2 nos. of existing buildings on site. Both the buildings were completed as per Commencement Certificate (CC) received from MCGM. The Plinth Completion Certificates for these existing Buildings were before 7th July 2004 hence are not under purview of EIA Notification. For other portion in the same layout this project has received Environmental Clearance for Commercial Complex from Ministry of Environment and Forests (I.A Division) dt. 29.12.2006. As per the provisions of EIA Notification, 1994 by which the validity for this EC is for a period of 5 years for commencement of construction. This is further clarified in the Para 9 of the Notification dt. 21.08.2013 by MoEF & CC. Hence it is apparent that the clause of validity in our case is for commencement of construction and not from the commencement of construction. We would like to mention that we have commenced the construction work within 5 years i.e. the same can be verified with Commencement Certificate (CC) received from MCGM.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	1,03,110.10 Sq. mt.
16.Deductions	38,930.42 Sq. mt.
17.Net Plot area	64,179.68 Sq. mt.


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18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Buildings prior to EIA Notification: 14869.65 Sq.mt. Building under purview of EIA Notification : 2,17,293.73 Sq. mt. (Including Fungible Area)
	b) Non FSI area (sq. m.): Building prior to EIA Notification: 5023.55 Sq.mt. Building under purview of EIA Notification: 2 90 542.82 Sq. mt. (Including Fungible Area)
	c) Total BUA area (sq. m.): 507836.55
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 19,460.53
	Approved Non FSI area (sq. m.): 79573.83
	Date of Approval: 21-01-2008
19.Total ground coverage (m2)	Buildings prior to EIA Notification: 406.54 Sq. mt., Buildings under purview of EIA Notification: 34338.74Sq. mt. Total Ground coverage: 34,745.28 Sq.mt.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	53.5%
21.Estimated cost of the project	18012500000

22.Number of buildings & its configuration

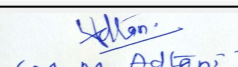
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Building prior to EIA Notification	--	--
2	Residential Building 1	Stilt + 25 Floors	76.61
3	Residential Building 2	Stilt + 15 Floors	46.94
4	Building under purview of EIA Notification - 6 wings of Residential	--	--
5	Wing A	2 Basements + Ground + 7 podia + 3 stilt level + 1 to 57 Floors + 2 fire check floors	217.10
6	Wing A1	Ground + 1 floor	9.20
7	Wing B	2 Basements + Ground + 7 podia + 3 stilt level + 1 to 57 Floors + 2 fire check floors	217.10
8	Wing C	2 Basements + Ground + 7 podia + 3 stilt level + 1 to 57 upper Floors + 2 fire check floors	217.10
9	Wing D	2 Basements + Ground + 7 podia + 3 stilt level + 1 to 45 Floors + 2 fire check floors	178.70
10	Wing E	2 Basements + Ground + 7 podia + 3 stilt level + 1 Floors	39.42
11	1 wing of Mall with Multiplex	--	--
12	Wing H	Basement + Lower Ground + Upper Ground + 1 to 3 floors	23.65

23.Number of tenants and shops	Existing Buildings prior to EIA Notification: Total Flats - 187 Nos. Building under purview of EIA Notification: Residential Buildings: Total Flats - 1940 Nos. Mall with Multiplex
24.Number of expected residents / users	Existing Buildings prior to EIA Notification: 748 Nos. , Building under purview of EIA Notification: Residential: 10387 Nos. Mall with Multiplex: 13782 Nos. (Floating population)
25.Tenant density per hectare	331/hectars
26.Height of the building(s)	


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27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	It is connected by 36.60 mt. wide LBS road at West and 18.30m wide Proposed D.P. Road at North.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	12.00 mt.
29.Existing structure (s) if any	There are 2 nos. of existing buildings on site. Both the buildings were completed as per Commencement Certificate (CC) received from M.C.G.M. The Plinth Completion Certificates for these existing Buildings were before 7th July 2004 hence are not under purview of EIA Notification. Part construction of proposed structure is completed as EC received.
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

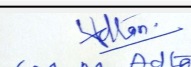
32.Total Water Requirement

Dry season:	Source of water	M.C.G.M/ Tanker water for Swimming pool make up
	Fresh water (CMD):	Existing Buildings prior to EIA Notification: 101 KLD (Domestic: 67 KLD + Flushing: 34 KLD) Building under purview of EIA Notification: 1018 KLD
	Recycled water - Flushing (CMD):	Building under purview of EIA Notification: 613 KLD
	Recycled water - Gardening (CMD):	Gardening: 102 KLD, Cooling tower make up: 230 KLD
	Swimming pool make up (Cum):	20 KLD
	Total Water Requirement (CMD) :	1983 KLD
	Fire fighting - Underground water tank(CMD):	Residential: 400 KL, Mall with Multiplex: 200 KL
	Fire fighting - Overhead water tank(CMD):	Residential: 500 KL, Mall with Multiplex: 25 KL
	Excess treated water	Untreated sewage from existing buildings prior to EIA Notification: 88 KLD, Excess treated sewage from Building under purview of EIA Notification: 340 KLD



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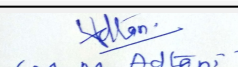

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Wet season:	Source of water	M.C.G.M/ Tanker water for Swimming pool make up/Partly by RWH								
	Fresh water (CMD):	Existing Buildings prior to EIA Notification: 101 KLD (Domestic: 67 KLD + Flushing: 34 KLD) Building under purview of EIA Notification: 1018 KLD								
	Recycled water - Flushing (CMD):	Building under purview of EIA Notification: 613 KLD								
	Recycled water - Gardening (CMD):	Cooling tower make up: 230 KLD								
	Swimming pool make up (Cum):	20 KLD								
	Total Water Requirement (CMD) :	1881 KLD								
	Fire fighting - Underground water tank(CMD):	Residential: 400 KL, Mall with Multiplex: 200 KL								
	Fire fighting - Overhead water tank(CMD):	Residential: 500 KL Mall with Multiplex: 25 KL								
	Excess treated water	Untreated sewage from existing buildings prior to EIA Notification: 88 KLD, Excess treated sewage from Building under purview of EIA Notification: 442 KLD								
Details of Swimming pool (If any)	Swimming pool volume: 450 m3 Swimming pool make up water requirement: 20 KL									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Domestic	--	--	--	--	--	--	--	--	--	
34.Rain Water Harvesting (RWH)	Level of the Ground water table:	7.0 mt. to 9.2 mt. below ground surface								
	Size and no of RWH tank(s) and Quantity:	Residential Building under purview of EIA Notification: Wing A: 1 RWH tank of 19 KL, Wing B: 1 RWH tank of 17 KL, Wing C: 1 RWH tank of 19 KL, Wing D: 1 RWH tank of 19 KL, Wing E: 1 RWH tank of 13 KL, Mall with multiplex: 1 RWH tank of 20 KL								
	Location of the RWH tank(s):	Basement level								
	Quantity of recharge pits:	Building under purview of EIA Notification: Residential: 8 Nos., Mall with multiplex: 2 Nos.								
	Size of recharge pits :	Residential: 4m x 4m x 3m effective depth with 160mm dia, Mall with multiplex: 4m x 4m x 3m effective depth with 160mm dia								
	Budgetary allocation (Capital cost) :	Rs. 58.70 Lacs								
	Budgetary allocation (O & M cost) :	Rs. 2.37 Lacs/annum								
	Details of UGT tanks if any :	Location of UG tanks: Basement								



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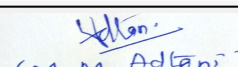

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35.Storm water drainage	Natural water drainage pattern:	The storm water collected through the storm water drains of adequate capacity will be discharged in to the external drain.
	Quantity of storm water:	2.28 m3/sec
	Size of SWD:	2.78 m3/sec
Sewage and Waste water	Sewage generation in KLD:	Existing buildings prior to EIA Notification : 88 KLD, Buildings under Purview of EIA Notification Residential Wing A & B: 633 KLD, Residential Wing C, D & E: 583 KLD, Mall with multiplex: 211 KLD
	STP technology:	For Residential: Sequential Batch Reactor (SBR), For Mall: Moving Bed Bio Reactor (MBBR)
	Capacity of STP (CMD):	Buildings under Purview of EIA Notification: 3 Nos. of STPs of total Capacity : 1811 KL
	Location & area of the STP:	Residential Wing A & B - 2nd basement -, Residential Wing C, D & E - 2nd basement ., Mall with multiplex - Basement .
	Budgetary allocation (Capital cost):	Rs. 648.35 Lacs
	Budgetary allocation (O & M cost):	Rs. 53.79 Lacs/annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Partly reuse and disposal of remaining waste to Authorized landfill site.
	Disposal of the construction waste debris:	Use of Construction waste (Brick, blocks, ceramic tiles, marbles etc.) for waterproofing work, paving & landscaping areas
Waste generation in the operation Phase:	Dry waste:	Existing buildings prior to EIA Notification: 202 kg/day, Buildings under Purview of EIA Notification: 4356 kg/day
	Wet waste:	Existing buildings prior to EIA Notification: 135 kg/day, Buildings under Purview of EIA Notification: 2421 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	214 kg/day
	Others if any:	NA
Mode of Disposal of waste:	Dry waste:	Existing buildings prior to EIA Notification: Handed over to MCGM, Buildings under Purview of EIA Notification: To Authorized recyclers
	Wet waste:	Existing buildings prior to EIA Notification: Handed over to MCGM, Buildings under Purview of EIA Notification: Treatment in Organic Waste Converter
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	Use as manure
	Others if any:	NA
Area requirement:	Location(s):	Basement level
	Area for the storage of waste & other material:	Residential: 120 Sq. mt., Mall with multiplex: 40 Sq. mt.
	Area for machinery:	Residential: 60 Sq. mt., Mall with multiplex: 12 Sq.mt.


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Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 54.00 Lacs
	O & M cost:	Rs. 14.07 Lacs/annum

37. Effluent Characteristics

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

38. Hazardous Waste Details

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

39. Stacks emission Details

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

40. Details of Fuel to be used


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

43. Green Belt Development

Total RG area :	14607.26 sq. mt.
No of trees to be cut :	46 Nos.
Number of trees to be planted :	731 Nos.
List of proposed native trees :	List of proposed native trees is given below
Timeline for completion of plantation :	At the time of completion of project

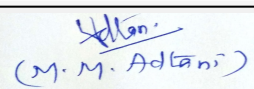
44. Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
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1	Proposed tree plantation on Ground	--	--	--
2	Moringa Oleifera	Drumstick tree	65	Pods are Edible, attracts birds and bees
3	Butea monosperma	Flame of forest	80	Attracts bees, butterflies, birds, Avenue
4	Schleichera oleosa	Kusum	83	Avenue, creates shade
5	Aegle marmelos	Bael	69	Fruits are edible, medicinal
6	Phyllanthus emblica	Amla	60	Fruit bearing, medicinal
7	Ficus benjamina microcarpa	Curtain Fig	97	Attracts birds, ornamental
8	List of proposed plantation on Podium	--	--	--
9	Anthocephallus cadamba	Kadamb	21	Quick growing, Shady, large tree, ball shaped flowers. It acquires profitable medicinal and commercial properties.
10	Areca catechu	Betel palm	40	Palm tree, seed contains alkaloids such as arecaidine and arecoline, which is used as an interior landscaping species, Nuts are used for chewing.
11	Artocarpus altilis	Breadfruit	35	Ornamental and shady tree
12	Azadirachta indica	Neem	35	Large tree, fast-growing evergreen tree, drought resistance, Medicinal properties, good for roadside plantation.
13	Cassia fistula	Golden Shower Tree, Bahava	34	Deciduous tree, medicinal properties, Butterfly host plant.
14	Erythrina indica	Indian Coral tree	40	It is a drought resistant tree. Flowers are pollinated by birds.
15	Mimusops elengi	Spanish cherry, Medlar, and Bullet wood	30	Shady medium-sized evergreen tree, small white fragrant flowers, Its timber is valuable, the fruit is edible, and it is used in traditional medicine.
16	Schleichera oleosa	Kusum	37	Avenue, creates shade
17	Moringa oleifera	Drumstick tree	5	Fast growing, evergreen, deciduous tree. It grows best in dry sandy soil and tolerates poor soil, including coastal areas. Its fruits are edible and used in very recopies of India.

45.Total quantity of plants on ground

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

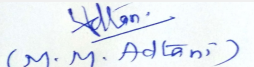
Serial Number	Name	C/C Distance	Area m2
1	--	--	--

47.Energy


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Power requirement:	Source of power supply :	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	440 KW
	DG set as Power back-up during construction phase	As per requirement
	During Operation phase (Connected load):	Existing buildings prior to EIA Notification: At actual, Buildings under Purview of EIA Notification: Residential Wing A to E: 17799 KW, Mall with multiplex: 6876 KW
	During Operation phase (Demand load):	Existing buildings prior to EIA Notification: At actual , Buildings under Purview of EIA Notification: Residential Wing A to E: 7445 KW, Mall with multiplex: 5115 KW
	Transformer:	Buildings under Purview of EIA Notification: Residential Wing A to E: 3 x 1250 kVA each, 4 x 1000 kVA each, 3 x 800 kVA each Mall with multiplex: 1 x 1000kVA 3 x 3000kVA each
	DG set as Power back-up during operation phase:	Buildings under Purview of EIA Notification: Residential Wing A to E: 3 DG sets of 1500 kVA capacity each, Mall with multiplex: 2 DG sets of 500 kVA each
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NO

48. Energy saving by non-conventional method:

Energy saving measures for buildings under Purview of EIA Notification:

- Use of LED lighting in lift lobbies.
- Operation & control with timer logic.
- Use of LED luminaries in street and Landscape lighting.
- Street lighting with solar system.
- Operation with Astronomical timer based
- Use of Variable Voltage Variable Frequency (VVVF) controller in lifts
- Group control system for lifts.
- Use of level controllers.
- Use of BEE min. 3 to 5 star rated pump drive (motor)
- Use of star rated fans
- Exhaust air ventilation by mechanical.
- Use of VFD for ventilation fans.
- Partially tower wise Roof top solar PV system with ON line centralized PV cells.


49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Buildings under Purview of EIA Notification	--
2	Overall energy saving: Residential Buildings	30%
3	Overall energy saving: Mall & Multiplex	22%

50. Details of pollution control Systems

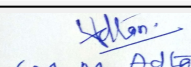
Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 132.00 Lacs
	O & M cost:	Rs 1.25 Lacs/annum


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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	10.08
2	Air Environment	Air and Noise Monitoring: On site Sensors	13.50
3	Air Environment	Air and Noise Monitoring: By outside MoEF & CC Approved Laboratory	1.54
4	Water Environment	Drinking water analysis	0.21
5	Land Environment	Site Sanitation	10.00
6	Health & Hygiene	Disinfection- Pest Control	8.40
7	Health & Hygiene	Health Check-up of workers	63.00
8	Cost towards Disaster Management	--	540.00

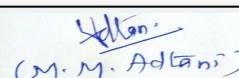
b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	AIR & NOISE ENVIRONMENT - Ambient Air quality & Noise Monitoring:	On site sensors	No set up cost is involved as already considered Construction Phase	0.50
2	AIR & NOISE ENVIRONMENT - Ambient Air quality & Noise Monitoring:	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.22
3	AIR & NOISE ENVIRONMENT - Cost for DG Stack Exhaust Monitoring	3 nos. of stacks	No set up cost is involved	0.14
4	AIR & NOISE ENVIRONMENT - Cost for Plantation	14607.26 Sq.mt. of RG area on ground	80.34	1.20
5	WATER ENVIRONMENT - Waste water treatment	Cost for sewage Treatment Plant	594.35	50.71
6	WATER ENVIRONMENT - Cost for water & waste water Monitoring	On site sensors	54.00	3.00
7	WATER ENVIRONMENT - Cost for water & waste water Monitoring	By outside MoEF & CC Approved Laboratory	No set up cost is involved	0.08


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8	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for RWH tanks	10.70	0.54
9	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for treatment unit for Rain Water collected in tanks	18.00	0.06
10	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for Rainwater Monitoring	No set up cost is involved	0.27
11	WATER ENVIRONMENT - Water Conservation (Rain Water Harvesting System)	Cost for Rainwater recharge pits	30.00	1.50
12	LAND ENVIRONMENT - Solid Waste Management	Cost for Treatment of biodegradable garbage in OWC	54.00	13.59
13	LAND ENVIRONMENT - Solid Waste Management	Environmental Monitoring	No set up cost is involved	0.48
14	ENERGY CONSERVATION - Use of renewable energy	Solar PV panels	132.00	1.25
15	Cost towards disaster management	--	2659.00	46.00

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


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

52.Any Other Information

No Information Available

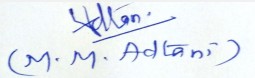
53.Traffic Management

Nos. of the junction to the main road & design of confluence:	3 entry and exists
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Parking details:	Number and area of basement:	2 Basements for Residential building, 1 Basement for Mall with multiplex
	Number and area of podia:	7 Podia for Residential building , 3 Podia for Mall with multiplex
	Total Parking area:	1,51,844.54 Sq. mt.
	Area per car:	--
	Area per car:	--
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	For Buildings under purview of EIA Notification: 5189 Nos.
	Public Transport:	NA
	Width of all Internal roads (m):	Min 6.0 mt.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Category 8 (b) B1
	Court cases pending if any	NA
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	29-06-2018

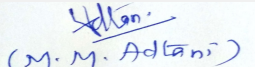
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	Total Water Requirement (Dry season - 1983) & (Wet season - 1881)
Waste Water Treatment	<ul style="list-style-type: none"> • Sewage generation in KLD: Existing buildings prior to EIA Notification : 88 KLD, Buildings under Purview of EIA Notification Residential Wing A & B: 633 KLD, Residential Wing C, D & E: 583 KLD, Mall with multiplex: 211 KLD • STP technology: For Residential: Sequential Batch Reactor (SBR), For Mall: Moving Bed Bio Reactor (MBBR) • Capacity of STP (CMD): Buildings under Purview of EIA Notification: 3 Nos. of STPs of total Capacity : 1811 KL • Location & area of the STP: Residential Wing A & B - 2nd basement -, Residential Wing C, D & E - 2nd basement., Mall with multiplex - Basement.



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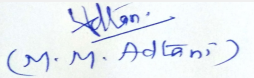

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Drainage pattern of the project	1) Natural water drainage pattern: The storm water collected through the storm water drains of adequate capacity will be discharged in to the external drain. 2) Quantity of storm water: 2.28 m3/sec 3) Size of SWD: 2.78 m3/sec
Ground water parameters	7.0 mt. to 9.2 mt. below ground surface
Solid Waste Management	1) Waste generation in the Pre Construction and Construction phase: • Waste generation: Partly reuse and disposal of remaining waste to Authorized landfill site • Disposal of the construction waste debris: Use of Construction waste (Brick, blocks, ceramic tiles, marbles etc.) for waterproofing work, paving & landscaping areas 2) Waste generation in the operation Phase: • Dry waste: Existing buildings prior to EIA Notification: 202 kg/day, Buildings under Purview of EIA Notification: 4356 kg/day • Wet waste: Existing buildings prior to EIA Notification: 135 kg/day, Buildings under Purview of EIA Notification: 2421 kg/day • Hazardous waste: NA • Biomedical waste (If applicable): NA • STP Sludge (Dry sludge): 214 kg/day • Others if any: NA 3) Mode of Disposal of waste: • Dry waste: Existing buildings prior to EIA Notification: Handed over to MCGM, Buildings under Purview of EIA Notification: To Authorized recyclers • Wet waste: Existing buildings prior to EIA Notification: Handed over to MCGM, Buildings under Purview of EIA Notification: Treatment in Organic Waste Converter. • Hazardous waste: NA • Biomedical waste (If applicable): NA • STP Sludge (Dry sludge): Use as manure • Others if any: NA. 4) Area requirement: • Location(s): Basement level • Area for the storage of waste & other material: Residential: 120 Sq. mt., Mall with multiplex: 40 Sq. mt. • Area for machinery: Residential: 60 Sq. mt., Mall with multiplex: 12 Sq.mt • Capital cost: Rs. 54.00 Lacs O & M cost: Rs. 14.07 Lacs/annum
Air Quality & Noise Level issues	-
Energy Management	1) Power requirement: • Source of power supply : Maharashtra State Electricity Distribution Company Limited (MSEDCL) • During Construction Phase: (Demand Load) 440 KW • DG set as Power back-up during construction phase As per requirement • During Operation phase (Connected load): Existing buildings prior to EIA Notification: At actual, Buildings under Purview of EIA Notification: Residential Wing A to E: 17799 KW, Mall with multiplex: 6876 KW • During Operation phase (Demand load): Existing buildings prior to EIA Notification: At actual , Buildings under Purview of EIA Notification: Residential Wing A to E: 7445 KW, Mall with multiplex: 5115 KW • Transformer : Buildings under Purview of EIA Notification: Residential Wing A to E: 3 x 1250 kVA each, 4 x 1000 kVA each, 3 x 800 kVA each Mall with multiplex: 1 x 1000kVA 3 x 3000kVA each • DG set as Power back-up during operation phase: Buildings under Purview of EIA Notification: Residential Wing A to E: 3 DG sets of 1500 kVA capacity each, Mall with multiplex: 2 DG sets of 500 kVA each • Fuel used: Diesel • Details of high tension line passing through the plot if any: NO 2) Energy saving by non-conventional method: Use of LED lighting, solar system, 3 to 5 star rated pump drive (motor), Roof top solar PV system 3) Detail calculations & % of saving: Overall energy saving: Residential Buildings - 30%, Overall energy saving: Mall & Multiplex - 22%
Traffic circulation system and risk assessment	Nos. of the junction to the main road & design of confluence: 3 entry and exists
Landscape Plan	Total RG area : 14607.26 sq. mt
Disaster management system and risk assessment	Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation 12.00 mt.
Socioeconomic impact assessment	-
Environmental Management Plan	Environmental Management Plan - (Cost per annum (Rs. In Lacs)) Air Environment Water for Dust Suppression - 10.08 Air Environment Air and Noise Monitoring: On site Sensors - 13.50 Air Environment Air and Noise Monitoring: By outside MoEF & CC Approved Laboratory- 1.54 Water Environment Drinking water analysis - 0.21 Land Environment Site Sanitation - 10.00 Health & Hygiene Disinfection- Pest Control - 8.40 Health & Hygiene Health Check-up of workers- 63.00 Cost towards Disaster Management -- 540.00
Any other issues related to environmental sustainability	-


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Brief information of the project by SEAC

Environment Clearance for Expansion and amendment in EC for Residential Development with Mall & Multiplex at CTS No. 706-B/A, 706-B/B, 706-B/C, 706-B/D, 706-B/E, 706-B/F, 706-B/G, 706-B/H & 706-B/J, 710 A, 712 A, 762 A, 763 A L.B.S. Marg, Mulund (W), Mumbai by M/s. Nirmal Lifestyle Developers Private Limited

Representative of PP was present during the meeting along with environmental consultant M/s. Ultra-Tech. PP informed that, they have received Environmental Clearance from Ministry of Environment and Forests vide letter dated 29.12.2006 as per the provisions of EIA Notification, 1994. Commencement Certificate (CC) also received from Municipal Corporation of Greater Mumbai vide letter dated 03.01.2007. PP stated that, there are 2 nos. of existing buildings of St + 25 and St + 15th floors. Plinth Completion Certificates of these buildings were before 7th July 2004 hence are not under purview of EIA Notification and was not part of previous EC. PP further informed that, the project under consideration is for amendment and expansion in EC from Mall & commercial development to residential development (6 wings of Residential) with 1 wing of mall & multiplex hence reapplied for EC.

PP informed that now, as per amendment the Total Plot Area is 103110.10 Sq. mt having Total Built-up Area 5,07,836.55 Sq. mt. (FSI- 2,17,293.73 Sq. mt.+ NON FSI- 2,90,542.82 Sq. mt.) . PP also informed that, Total Construction work carried out on site till date as per previous EC is 70431.75 Sq. mt. The proposal was previously considered in 69th meeting of SEAC-II dated on 11-09-2018.

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

DECISION OF SEAC


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

Specific Conditions by SEAC:

- 1) PP to submit undertaking stating that, the project site is beyond ESZ area of sanjay Gandhi National Park.
- 2) PP to submit & upload CER as per MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project.
- 3) PP to submit HRC permission.


FINAL RECOMMENDATION

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


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Agenda of 76th (Part-A) Meeting of State Expert Appraisal Committee-2 (SEAC-2)


SEAC Meeting number: 76th (Part-A) Meeting Date November 1, 2018

Subject: Environment Clearance for Expansion of Proposed Residential project - Navjeevan CHS at CTS No. 19, 19/1 to 67, 20, 20/1 to 121 of village Pahadi, Goregoan, P/N ward, Malad East, Mumbai 400097 by M/s Shiv Shakti Builders & developers

Is a Violation Case: No

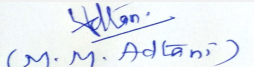
1.Name of Project	Expansion of Proposed Residential project - Navjeevan CHS
2.Type of institution	Private
3.Name of Project Proponent	M/s Shiv Shakti Builders & developers
4.Name of Consultant	M/s. Enviro Analysts and Engineers Pvt. Ltd.
5.Type of project	SRA Scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental clearance on 12th November 2010 vide letter no. SEAC-2010/CR-358/TC-2 for total construction area of 51, 482 sq.m out of which 18750.00 sq.m of area is been completed.
8.Location of the project	CTS No. 19, 19/1 to 67, 20, 20/1 to 121 of village Pahadi, Goregoan, P/N ward, Malad East, Mumbai 400097
9.Taluka	Malad
10.Village	Pahadi
Correspondence Name:	M/s Shiv Shakti Builders & developers
Room Number:	7
Floor:	ground floor
Building Name:	Shankar Dham II
Road/Street Name:	-
Locality:	Off Four Bungalows, Andheri- W
City:	Mumbai Suburban district
11.Area of the project	Corporation of Greater Mumbai
12.IOD/IOA/Concession/Plan Approval Number	IOA received IOD/IOA/Concession/Plan Approval Number: SRA/ENG/3249/PN/PL/AP dtd 4.02.2017 Approved Built-up Area: 51197.68
13.Note on the initiated work (If applicable)	Construction work has been started as per previous EC received dtd 12.11.2010,
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	LOI received vide letter no.SRA/ENG/1546/PN/PL/LOI dtd 27.01.2017
15.Total Plot Area (sq. m.)	11210.80 sq.m.
16.Deductions	976.79 sq.m.
17.Net Plot area	10234.01 sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 56793.66 b) Non FSI area (sq. m.): 19740.03 c) Total BUA area (sq. m.): 76533.69
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 51197.68 Approved Non FSI area (sq. m.): - Date of Approval: 04-02-2017
19.Total ground coverage (m2)	5845.72 sq.m
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	57%
21.Estimated cost of the project	3167200000.00

22.Number of buildings & its configuration



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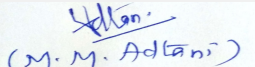

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Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)	
1	Rehab bldg	Gr (Commercial) + 2nd to 11th floor + 12th part + 13th & 14th floor + 15th Part floor + 16th floor + 17th part floor + 18th part + 19th to 21st floor + 22nd part + 23rd floor	69.90	
2	Sale bldg (Wing A to G)	Gr (Part stilt) + common 1st (Part podium) + 2nd to 21st floor	69.90	
23.Number of tenants and shops	Rehab: Residential: 624, Commercial: 53, R/C: 16, BWS: 14, Temple: 4 Sale: 570 nos			
24.Number of expected residents / users	Rehab: 3450 nos. ,Sale: 2850			
25.Tenant density per hectare	1186 tenant / hectare			
26.Height of the building(s)				
27.Right of way (Width of the road from the nearest fire station to the proposed building(s))	Access through 18.30 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	Nil			
30.Details of the demolition with disposal (If applicable)	Nil			
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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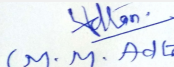

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Dry season:	Source of water	MCGM / treated water from STP							
	Fresh water (CMD):	551 KLD							
	Recycled water - Flushing (CMD):	289 KLD							
	Recycled water - Gardening (CMD):	8 KLD							
	Swimming pool make up (Cum):	6 KLD							
	Total Water Requirement (CMD) :	848							
	Fire fighting - Underground water tank(CMD):	Rehab: 300 KLD Sale: 600 KLD							
	Fire fighting - Overhead water tank(CMD):	Rehab-180 KLD Sale-210 KLD							
	Excess treated water	411							
Wet season:	Source of water	MCGM / treated water from STP/RWH							
	Fresh water (CMD):	551 KLD							
	Recycled water - Flushing (CMD):	289 KLD							
	Recycled water - Gardening (CMD):	-							
	Swimming pool make up (Cum):	-							
	Total Water Requirement (CMD) :	840							
	Fire fighting - Underground water tank(CMD):	Rehab: 300 KLD Sale: 600 KLD							
	Fire fighting - Overhead water tank(CMD):	Rehab-180 KLD Sale-210 KLD							
	Excess treated water	419							
Details of Swimming pool (If any)	6KLD								
33.Details of Total water consumed									
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable


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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	2.2 bgl
	Size and no of RWH tank(s) and Quantity:	-
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	197.48
	Size of recharge pits :	Well
	Budgetary allocation (Capital cost) :	Rs. 10 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 1 Lakh/annum
	Details of UGT tanks if any :	Domestic Water Tank : 557 KLD Flushing Water Tank : 290 KLD Fire Water Tank : 600 KLD


35.Storm water drainage	Natural water drainage pattern:	East to West
	Quantity of storm water:	0.2 cum/sec
	Size of SWD:	450 mm X 450 mm

Sewage and Waste water	Sewage generation in KLD:	Rehab: 418 KLD Sale: 369 KLD
	STP technology:	MBBR
	Capacity of STP (CMD):	Rehab: 420 KLD Sale: 380 KLD
	Location & area of the STP:	Below ground level
	Budgetary allocation (Capital cost):	Rs. 100 Lakhs
	Budgetary allocation (O & M cost):	Rs. 10 Lakh/annum

36.Solid waste Management


Waste generation in the Pre Construction and Construction phase:	Waste generation:	Excavated waste material generated will be reused for backfilling and rest shall be disposed by covered trucks to the authorized landfill sites with permission from Municipal authority
	Disposal of the construction waste debris:	Will be used for Landscaping.

Waste generation in the operation Phase:	Dry waste:	1238 kg/day
	Wet waste:	1827 kg/day
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	8 kg/day
	Others if any:	NA


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Mode of Disposal of waste:	Dry waste:	To be handed over to Local Recyclers for recycling.
	Wet waste:	To be processed in the OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users.
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	To be used as manure
	Others if any:	Nil
Area requirement:	Location(s):	Ground level
	Area for the storage of waste & other material:	158 sq.m
	Area for machinery:	10 sq.m
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs.50 lakhs
	O & M cost:	Rs. 1.2 Lakhs

37. Effluent Characteristics

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

38. Hazardous Waste Details

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


39. Stacks emission Details

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

40. Details of Fuel to be used

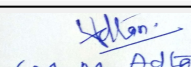
Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not applicable	Not applicable	Not applicable	Not applicable

41. Source of Fuel	Not applicable
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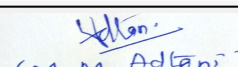
42.Mode of Transportation of fuel to site		Not applicable		
43.Green Belt Development	Total RG area :	1524.6 sq.m		
	No of trees to be cut :	-		
	Number of trees to be planted :	188		
	List of proposed native trees :	As listed below		
	Timeline for completion of plantation :	At the end of construction phase		
44.Number and list of trees species to be planted in the ground				
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem	15	Large tree, good for roadside plantation
2	Bauhinia racemosa	Apta	22	Small tree with small white flowers, butterfly host plant
3	Ficus religiosa	Pipal	18	Semi-evergreen tree
4	Samanea saman	Rain tree	22	Shady & ornamental tree
5	Saraca asoca	Ashoka	17	Shady tree with red yellow flower
6	Cassia fistula	Bhava	16	Medium sized deciduous tree, beautiful yellow flowers, Butterfly host plant
7	Michalia champaca	Son chapa	25	Medium sized evergreen tree, fragrant yellow flowers, butterfly host plant
8	Mimusops elengi	Bakul	23	Shady tree, small white fragrant flowers
9	Pongamia pinnata	Karanj	30	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	Hibiscus rosa-sinensis	-	-	
2	Gloriosa superba	-	-	
3	Tecoma stans	-	-	
4	Bougainvillea spectabilis	--	---	
47.Energy				


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Power requirement:	Source of power supply :	Reliance energy
	During Construction Phase: (Demand Load)	150 kW
	DG set as Power back-up during construction phase	200 KVA
	During Operation phase (Connected load):	5048.25 kW
	During Operation phase (Demand load):	2635.58 kW
	Transformer:	2500 kVA & 1500 kVA
	DG set as Power back-up during operation phase:	450 kVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48. Energy saving by non-conventional method:

- External lighting on solar.
- Lifts will be with VFD drives and soft starters, which will result in overall 20 % power saving.
- Common Area Lighting, mainly LED lights with timer control operation
- Solar Hot Water Generation for apartment

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Total energy savings	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. 45 Lakhs
	O & M cost:	Rs. 9 lakhs/yr

51. Environmental Management plan Budgetary Allocation

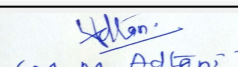
a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water sprinkling	Water sprinkling	10
2	Health, safety & first aid facility	Health, safety & first aid facility	8
3	Sanitary facility and waste water management	Sanitary facility and waste water management	12


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4	Environmental Monitoring (Noise, Water & Soil-Project site (4 times a year)	Environmental Monitoring (Noise, Water & Soil-Project site (4 times a year)	20
---	-----------------------------------------------------------------------------	-----------------------------------------------------------------------------	----

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 Management	STP	100	10
2	Water Management	RWH	10	1
3	Landscaping	Landscaping	2.8	0.56
4	Solid waste management	OWC	50	1.2

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


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

52.Any Other Information

No Information Available

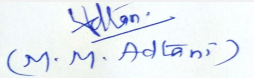
53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	The project site is accessible through the existing 18.30 M wide DP road
Parking details:	Number and area of basement:	Nil
	Number and area of podia:	1 podium of 1325.07 sq.m
	Total Parking area:	5101.99 sq.m
	Area per car:	12.81 sq.m
	Area per car:	12.81 sq.m
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	398
	Public Transport:	nil
	Width of all Internal roads (m):	minimum 6 m wide


 (Dr. B. N. Patil)
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 SEAC (MMR)
Dr. B.N.Patil (Secretary SEAC-II)

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	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	1.63 km from Sanjay Gandhi National Park (Aerial distance from project boundary to ESZ boundary)
	Category as per schedule of EIA Notification sheet	B2-8(a)
	Court cases pending if any	Nil
	Other Relevant Informations	-
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-08-2018

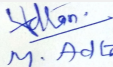
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	Total Water Requirement (Dry season - 848) & (Wet season - 840)
Waste Water Treatment	• Sewage generation in KLD: Rehab: 418 KLD Sale: 369 KLD • STP technology: MBBR • Capacity of STP (CMD): Rehab: 420 KLD Sale: 380 KLD • Location & area of the STP: Below ground level
Drainage pattern of the project	1) Natural water drainage pattern: East to West 2) Quantity of storm water: 2.28 m ³ /se 0.240 cum/sec 3) Size of SWD: 450 mm X 450 mm
Ground water parameters	2.2 bgl
Solid Waste Management	1) Waste generation in the Pre Construction and Construction phase: • Waste generation: Excavated waste material generated will be reused for backfilling and rest shall be disposed by covered trucks to the authorized landfill sites with permission from Municipal authority • Disposal of the construction waste debris: Will be used for Landscaping. 2) Waste generation in the operation Phase: • Dry waste: 1239 kg/day • Wet waste: 1839 kg/day • Hazardous waste: NA • Biomedical waste (If applicable): NA • STP Sludge (Dry sludge): 8 kg/day • Others if any: NA 3) Mode of Disposal of waste: • Dry waste: To be handed over to Local Recyclers for recycling • Wet waste: To be processed in the OWC. Manure obtained shall be used for landscaping / Gardening, Excess manure shall be sold to nearby end users. • Hazardous waste: NA • Biomedical waste (If applicable): NA • STP Sludge (Dry sludge): To be used as manure • Others if any: NA. 4) Area requirement: • Location(s): Ground level • Area for the storage of waste & other material: 159 sq.m • Area for machinery: 6 sq.m • Capital cost: Rs.50 lakhs O & M cost: Rs. Rs. 1.2 Lakhs
Air Quality & Noise Level issues	-
Energy Management	1) Power requirement: • Source of power supply : Reliance energy • During Construction Phase: (Demand Load) 150 kW • DG set as Power back-up during construction phase 200 KVA • During Operation phase (Connected load): 5048.25 kW • During Operation phase (Demand load): 2635.58 kW • Transformer : 2500 kVA & 1500 kVA • DG set as Power back-up during operation phase: 450 kVA • Fuel used: HSD • Details of high tension line passing through the plot if any: NO 2) Energy saving by non-conventional method: External lighting on solar, LED lights, VFD drives and soft starters, which will result in overall 20 % power saving. Common Area Lighting, mainly with timer control operation • Solar Hot Water Generation for apartment 3) Detail calculations & % of saving: Total energy savings 19 %


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Traffic circulation system and risk assessment	Nos. of the junction to the main road & design of confluence: The project site is accessible through the existing 18.30 M wide DP road
Landscape Plan	Total RG area : 1524.6 sq.m
Disaster management system and risk assessment	Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation 9 m Socioeconomic impact assessment -
Socioeconomic impact assessment	-
Environmental Management Plan	Environmental Management Plan - (Cost per annum (Rs. In Lacs) Water sprinkling Water sprinkling - 10 Health, safety & first aid facility Health, safety & first aid facility - 8 Sanitary facility and waste water management Sanitary facility and waste water management- 12 Environmental Monitoring (Noise, Water & Soil-Project site (4 times a year) Environmental Monitoring (Noise, Water & Soil-Project site (4 times a year) - 20
Any other issues related to environmental sustainability	-

Brief information of the project by SEAC


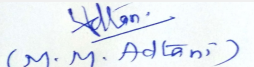
Environment Clearance for Expansion of Proposed Residential project - Navjeevan CHS at CTS No. 19, 19/1 to 67, 20, 20/1 to 121 of village Pahadi, Goregoan, P/N ward, Malad East, Mumbai 400097 by M/s Shiv Shakti Builders & developers.

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

PP informed that EC was received vide letter dated 12th November, 2010 for the Total Construction area 51,482 Sq.m. PP further informed that, the proposal is for expansion with increase in total built up area from 51,481.71Sq.m. to 76,533.69 Sq.m. due to availability of base FSI & Fungible FSI. PP also stated that, there is change in building configuration of Rehab building and Sale building (Wing A & B) also addition of 5 new wings. Rehab building configuration will be changed from G+18 floors to Gr (Commercial) + 1st floor (Amenity) + 2nd to 11th floor + 12th part + 13th & 14th floor+ 15th Part + 16th floor + 17th part+ 18th part + 19th to 21st floor + 22nd part + 23rd floor and Sale building (Wing A & B) configuration will be changed from B + (G+1) Commercial + P + 23 floors to Gr (Part stilt) + common 1st (Part podium) + 2nd to 21st floor and addition of Sale Wing C,D,E , F & G - Gr (Part stilt) + common 1st (Part podium) + 2nd to 21st floor. The proposal was previously considered in 68th meeting of SEAC-II dated on 07-09-2018. PP submitted compliance report which is taken on record.

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

DECISION OF SEAC

 <small>(Dr. B. N. Patil) Member Secretary SEAC (MMR)</small> Dr. B.N.Patil (Secretary SEAC-II)	SEAC Meeting No: 76th (Part-A) Meeting Date: November 1, 2018	Page 23 of 66	 <small>(M. M. Adtani)</small> Shri M.M.Adtani (Chairman SEAC-II)
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PP has complied with the points raised in the 68th meeting of SEAC-2 **hence, Committee decided to recommend the proposal for Environmental Clearance to SEIAA.**

Specific Conditions by SEAC:

FINAL RECOMMENDATION

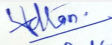
SEAC-II have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

SEAC-AGENDA-00000000157


(Dr. B. N. Patil)
Member Secretary
SEAC (MMR)
**Dr. B.N.Patil (Secretary
SEAC-II)**

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

Agenda of 76th (Part-A) Meeting of State Expert Appraisal Committee-2 (SEAC-2)


SEAC Meeting number: 76th (Part-A) Meeting Date November 1, 2018

Subject: Environment Clearance for Application for grant of environmental clearance of proposed SRA scheme -

Is a Violation Case: No

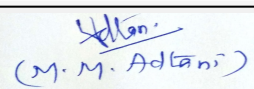
1.Name of Project	SRA Scheme (Expansion Project) by M/s. Rajsanket Realty Ltd. "Raj Infinita"
2.Type of institution	Private
3.Name of Project Proponent	Mr Priyal K. Patel, RB House, MIDC Cross Road 'B' of Andheri Kurla Road, J.B. Nagar, Andheri (E), Mumbai - 400 051.
4.Name of Consultant	Mr. H.K. Desai ,Enviro Analysts & Engineers Pvt. Ltd., B-1003, Enviro House Western Edge II, Behind Metro Mall Western Express Highway Borivali (E), Mumbai-400066
5.Type of project	SRA scheme
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. The project has received EC dated 16-07-2015 (SEAC-2010/CR648/TC-2) for the construction area = 1,19,324. 82 sq.m.
8.Location of the project	At CTS No. 307/66A of village Valnai, Link Road, Malad (E), Mumbai
9.Taluka	Borivali
10.Village	Valnai
Correspondence Name:	Mr Priyal K. Patel
Room Number:	-
Floor:	-
Building Name:	RB House
Road/Street Name:	MIDC Cross Road 'B' of Andheri Kurla Road
Locality:	J.B. Nagar, Andheri (E), Mumbai - 400 051
City:	Andheri
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOA date:- 01/06/2012 & C.C. :- 17/07/2012 IOD/IOA/Concession/Plan Approval Number: IOA Ref. :- SRA/ENG/2832/PN/ML/AP Approved Built-up Area: 37261.86
13.Note on the initiated work (If applicable)	Area of 81917.29 sq.m. has been constructed on site as per the Previous EC granted on 16-07-2015 (SEAC 2010/CR 648/TC 2).
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	SRA/ENG/1025/PN/ML/LOI dated 11-08-2011
15.Total Plot Area (sq. m.)	22,340.25 sq.m.
16.Deductions	4293.84 sq.m.
17.Net Plot area	18046.41sq.m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 74,409.51 b) Non FSI area (sq. m.): 67,416.99 c) Total BUA area (sq. m.): 141826.50
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Approved Non FSI area (sq. m.): Date of Approval:
19.Total ground coverage (m2)	8,867.64
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	39.69
21.Estimated cost of the project	3519900000

22.Number of buildings & its configuration


(Dr. B. N. Patil)
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SEAC (MMR)
**Dr. B.N.Patil (Secretary
SEAC-II)**

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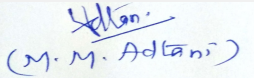
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Rehab 1	G+17	52.65
2	Rehab 2	G +18	55.65
3	Rehab 3	G+22	67.15
4	Rehab 4	G+22	67.15
5	Rehab 5	G+1	6.25
6	Dhobighat Bldg.	G+4	18.30
7	Sale Bldg.	2 Basement + Gr. (incl. Shops) + 2 Podium + 37 Resi. Floors + Service fl. + Fire check floor	129.20

23. Number of tenants and shops	Rehab Bldg. - 1 = 257nos. Rehab Bldg. - 2= 69nos. Rehab Bldg. - 3= 344nos. Rehab Bldg. - 4= 200nos. Rehab Bldg. - 5= 11nos. Sale Bldg. wing A = 140nos. Sale Bldg. wing B = 214nos. Sale Bldg. wing C = 144nos. No. of Shops Rehab Shop = 10 nos. Sale Shop = 14 nos.
24. Number of expected residents / users	7902
25. Tenant density per hectare	500 nos. /hectare
26. Height of the building(s)	
27. Right of way (Width of the road from the nearest fire station to the proposed building(s))	13.40 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	6-9 m
29. Existing structure (s) if any	Construction of bldg started as per granted EC
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

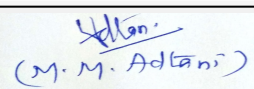
 (Dr. B. N. Patil) Member Secretary SEAC (MMR) Dr. B.N.Patil (Secretary SEAC-II)	SEAC Meeting No: 76th (Part-A) Meeting Date: November 1, 2018	Page 26 of 66	 (M. M. Adtani) Shri M.M.Adtani (Chairman SEAC-II)
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Dry season:	Source of water	MCGM/Recycled water								
	Fresh water (CMD):	638 + 20 (For Dhobighat Bldg.)								
	Recycled water - Flushing (CMD):	330								
	Recycled water - Gardening (CMD):	15								
	Swimming pool make up (Cum):	6								
	Total Water Requirement (CMD) :	1009								
	Fire fighting - Underground water tank(CMD):	250 cum for each bldg.								
	Fire fighting - Overhead water tank(CMD):	300 cum for each bldg.								
	Excess treated water	469								
Wet season:	Source of water	MCGM/Recycled water/ RWH water								
	Fresh water (CMD):	638+ 20 (For Dhobighat Bldg.)								
	Recycled water - Flushing (CMD):	330								
	Recycled water - Gardening (CMD):	0								
	Swimming pool make up (Cum):	6								
	Total Water Requirement (CMD) :	994								
	Fire fighting - Underground water tank(CMD):	250 cum for each bldg.								
	Fire fighting - Overhead water tank(CMD):	300 cum for each bldg.								
	Excess treated water	484								
Details of Swimming pool (If any)										
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
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	


 (Dr. B. N. Patil)
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Dr. B.N.Patil (Secretary SEAC-II)

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

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	at 4 m bgl.
	Size and no of RWH tank(s) and Quantity:	7 No. of RWH Tanks for each bldg. with 2 days storage (total capacity = 528 cum)
	Location of the RWH tank(s):	at ground level
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 7.00 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 2.00 Lakhs
	Details of UGT tanks if any :	NA
35.Storm water drainage	Natural water drainage pattern:	north to south
	Quantity of storm water:	111 cum
	Size of SWD:	450 mm wide drain channel
Sewage and Waste water	Sewage generation in KLD:	904 KLD (Rehab = 574 KLD, Sale =330 KLD)
	STP technology:	MBBR
	Capacity of STP (CMD):	2 no. of STP (for rehab bldg. = 630 KLD, for sale bldg. = 350 KLD), total 980 KLD), 20 KLD of ETP for the Dhobighat is separately provided to treat waste water generated from Dhobighat.
	Location & area of the STP:	for rehab bldg. -at ground level, for Dhobighat Bldg.- at ground level , for Sale bldg. = at basement level
	Budgetary allocation (Capital cost):	Rs. 161. 11Lakhs
	Budgetary allocation (O & M cost):	Rs. 26.00 Lakhs
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	1. steel -97 tonnes -100 % will be sold for recycling,2. cement -4833 Kg- Cement waste will be used for bunding purpose, temporary plaster concrete works., 3. Sand-40 cum -Waste sand will be used for bedding for flooring purpose. It will also be used as filler material for toilets water proofing., 4.Aggregates-2180 cum-It will be used as a layer for internal roads and building boundary wall.,5.Wood-205 sq.m.-Will be sold for recycling, 6. tiles -5451sq.m.-Waste tiles will be used as china mosaic
	Disposal of the construction waste debris:	To be Disposed as per Debris management plan at designated disposal site
Waste generation in the operation Phase:	Dry waste:	1555
	Wet waste:	2144
	Hazardous waste:	nil
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	45 Kg/Day
	Others if any:	Nil
SEAC-II)	November 1, 2016	07/00 SEAC-II)

Mode of Disposal of waste:	Dry waste:	To be managed through recyclers.
	Wet waste:	To be processed in the Organic Waste Converter and manure so obtained will be used for landscaping
	Hazardous waste:	Nil
	Biomedical waste (If applicable):	Nil
	STP Sludge (Dry sludge):	To be used as manure
	Others if any:	Nil
Area requirement:	Location(s):	at ground level
	Area for the storage of waste & other material:	156.5 sq.m.
	Area for machinery:	6.00 sq.m.
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 16.00 Lakhs
	O & M cost:	Rs. 4.2 Lakhs

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amount of effluent generation (CMD):		20 KLD from Dhobhighat Bldg.			
Capacity of the ETP:		20 KLD from Dhobhighat Bldg.			
Amount of treated effluent recycled :		18 KLD			
Amount of water send to the CETP:		-			
Membership of CETP (if require):		-			
Note on ETP technology to be used		-			
Disposal of the ETP sludge		-			

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


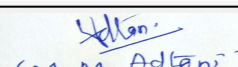
39.Stacks emission Details

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

 (Dr. B. N. Patil) Member Secretary SEAC (MMR)	SEAC Meeting No: 76th (Part-A) Meeting Date: November 1, 2018	Page 29 of 66	 (M. M. Adtani) Shri M.M.Adtani (Chairman SEAC-II)
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43.Green Belt Development	Total RG area :	Total = 3061.75sq.m., on ground = 1471.22 sq.m., on podium = 1590.53 sq.m.
	No of trees to be cut :	nil
	Number of trees to be planted :	280 nos.
	List of proposed native trees :	as below
	Timeline for completion of plantation :	at the end of construction phase

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


Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Azadirachta indica	Neem Tree	20	Noise reduction
2	Michelia champaca	Piwala Champa / Sonchapha	20	Flowering
3	Alistonia scholaris	Devils tree / Satvin	35	shaded
4	Pongamia pinnata	Karanj	15	shaded
5	Polyalthia longifolia	Mast Tree	15	noise reduction
6	Cassia fistula	Indian Laburnum	20	shaded tree
7	Cycas revoluta	Fern Palm	15	ornamental
8	Mimusops elengi	bakul	20	flowering
9	Roystonea regia	royal palm	15	ornamental
10	Barreingtonia racemosa	Samundraphal	20	flowering
11	Millingtonia hortensis	Indian Cork Tree	25	shaded
12	Grevillea robusta	Silver oak	25	shaded
13	Bauhinia purpuria	Purple Orchid Tree	20	shaded
14	Saraca asoca	Ashoka tree	15	shaded

45.Total quantity of plants on ground

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

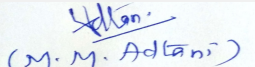
Serial Number	Name	C/C Distance	Area m2
1	Ocimum tenuiflorum	-	-
2	Bambusa dendrocalmus	-	-
3	Catharanthus roseus	-	-
4	Jasminum sambac	-	-
5	Passiflora ligularis	-	-
6	Nyctanthes arbortristis	-	-

47.Energy


(Dr. B. N. Patil)
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SEAC-II)**

Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	100 KVA
	DG set as Power back-up during construction phase	100 KVA
	During Operation phase (Connected load):	23.10Mw
	During Operation phase (Demand load):	11.01Mw
	Transformer:	-
	DG set as Power back-up during operation phase:	2X 630 KVA (For Sale Bldg.), 1 x 750 KVA & 1 x380 KVA (for Rehab) Of capacities for back up to emergency facility will be provided.
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48. Energy saving by non-conventional method:

Total Saving Due to LED
Total Saving Due to VFD for Lift and Pump
Saving Due CFL Light, Electronic Ballast along with BEE rated 5 Star equipments.
Saving Due to Solar Energy
Saving Due to Solar Water Heater

49. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	as above	3.6%

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. 140.84 Lakhs
	O & M cost:	Rs. 3.00 Lakhs

51. Environmental Management plan Budgetary Allocation

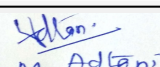
a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air Environemnt	Dust Suppression	2.5
2	Land Environment	Site Sanitation	2.0
3	Environmental Monitoring	Environmental Monitoring	15.0


(Dr. B. N. Patil)
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4	EHS	Disinfection	1.2
5	EHS	Health check up	3.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	water environment	Rain Water Harvesting	7.0	2.0
2	solid waste	MSW	16.0	4.2
3	water environment	STP & ETP	161.11	26.0
4	Energy Saving	Energy Conservation	140.84	3.0
5	land environment	landscaping	30.0	4.0

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


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

52.Any Other Information

No Information Available

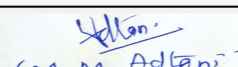
53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	3 no. of entry exits through 13.40 m wide DP Road which is further connected to link Road
Parking details:	Number and area of basement:	2 nos. (13,645.58 sq.m.)
	Number and area of podia:	2 nos.(12,666.58 sq.m.)
	Total Parking area:	26,312.16 sq.m.
	Area per car:	27 sq.m.
	Area per car:	27 sq.m.
	Number of 2-Wheelers as approved by competent authority:	nil
	Number of 4-Wheelers as approved by competent authority:	Required = 967 Nos. Provided = 988 Nos.
	Public Transport:	nil
	Width of all Internal roads (m):	6 to 9 m
	CRZ/ RRZ clearance obtain, if any:	nil


 (Dr. B. N. Patil)
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Dr. B.N.Patil (Secretary SEAC-II)

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	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	sanjay Gadhi National Park = 3.36 km
	Category as per schedule of EIA Notification sheet	category B, shedule 8(a)
	Court cases pending if any	No
	Other Relevant Informations	IT is an expansion project. previously grant EC dated 16-07-2015 (SEAC-2010/CR648/TC-2) for the construction area = 1,19,324. 82 sq.m.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	12-01-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

 <small>(Dr. B. N. Patil) Member Secretary SEAC (MMR)</small> Dr. B.N.Patil (Secretary SEAC-II)	SEAC Meeting No: 76th (Part-A) Meeting Date: November 1, 2018	Page 33 of 66	 <small>(M. M. Adtani)</small> Shri M.M.Adtani (Chairman SEAC-II)
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Environment Clearance for Application for grant of environmental clearance of proposed SRA scheme at CTS No. 307/66A of village Valnai, Link Road, Malad (E), Mumbai by Mr Priyal K. Patel

Representative of PP was present during the meeting along with environmental consultant Mr. H.K. Desai, Enviro Analysts & Engineers Pvt. Ltd.,

PP informed that, the project has received EC earlier vide Letter dated 14-08-2011 & amended on 16-07-2015 for 6 buildings (5 Rehab buildings & 1 Sale building) with total construction area of 1,19,324.82 sq.m. PP further informed that, there is expansion in the project due to Dhobi ghat reservation. The revised project was first appraised in 60th SEAC-II meeting where in the proposal consists of addition of 1 Dhobighat building & Dhobi ghat Housing Bldg. (G+4 Floors) & vertical expansion in sale building and amendment in the configuration in the rehab buildings with the total construction area of 1,41,826.50sq.m.

Committee noted that the project appraised in 60th SEAC-II meeting was also revised. Total built up area of the project changes from 1,41,826.50sq.m. to 1,49,995.95 sq.m. also there is considerable changes in building configuration like in SRA Bldg. 5- Gr + 1 floor to Gr + 18 floor, Dhobighat & Dhobi ghat Housing Bldg G+4 Floors to G+14+15 (part) upper floors and Sale Bldg. (A,B & C)- 2 Basement + Gr. (incl. Shops) + 2Podium + fire check floor + fire check floor+37th Resi. Floors to 2 Basement + Gr. (incl. Shops) + 2 Podium + 1st - 18th Res. Floors + service floor + fire check floor +19th - 37th Resi. Floors. Committee asked PP to come with full potential of the project along with compliance of following points.

DECISION OF SEAC


After deliberation, Committee decided to consider the proposal afresh hence, deferred.

Specific Conditions by SEAC:

- 1) PP to submit & upload acknowledgement copy for plan submitted for full potential to local planning authority.
- 2) PP to upload revised CS for full potential.
- 3) PP to follow environmental norms for Dhobi ghats.

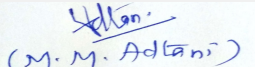
FINAL RECOMMENDATION

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


(Dr. B. N. Patil)
Member Secretary
SEAC (MMR)
**Dr. B.N.Patil (Secretary
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SEAC-II)**


Agenda of 76th (Part-A) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 76th (Part-A) Meeting Date November 1, 2018

Subject: Environment Clearance for Runwal Forests At Plot bearing CTS No. 596, 596/1-6, 597, 597/1-7, 598, 598/1-3, 599A, 599A/1-81, 601, 602, 602/1-9, 603, 604, 605, 605/1-17, 606, 606/1-83, 607A, 607/1-31 and 607D of Village - Kanjur, Mumbai Proposed by M/s Wheelabrator Alloy Castings Ltd.

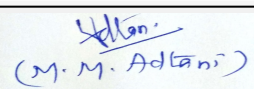
Is a Violation Case: No

1.Name of Project	Runwal Forests
2.Type of institution	Private
3.Name of Project Proponent	M/s Wheelabrator Alloy Castings Ltd.
4.Name of Consultant	M/s. Enviro Analysts & Engineers Pvt. Ltd.
5.Type of project	residential project
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	yes. Environmental Clearance dated 26th Dec, 2014.
8.Location of the project	At Plot bearing CTS No. 596, 596/1-6, 597, 597/1-7, 598, 598/1-3, 599A, 599A/1-81, 601, 602, 602/1-9, 603, 604, 605, 605/1-17, 606, 606/1-83, 607A, 607/1-31 and 607D of Village - Kanjur, Mumbai
9.Taluka	kurla
10.Village	kanjur
Correspondence Name:	Subodh Runwal
Room Number:	Runwal Omkar Esquare, 5th Flr., Eastern Express Highway Opp. Sion-Chunabhatti Signal Sion (East), Mumbai - 400 022
Floor:	Runwal Omkar Esquare, 5th Flr., Eastern Express Highway Opp. Sion-Chunabhatti Signal Sion (East), Mumbai - 400 022
Building Name:	Runwal Omkar Esquare, 5th Flr., Eastern Express Highway Opp. Sion-Chunabhatti Signal Sion (East), Mumbai - 400 022
Road/Street Name:	Runwal Omkar Esquare, 5th Flr., Eastern Express Highway Opp. Sion-Chunabhatti Signal Sion (East), Mumbai - 400 022
Locality:	Runwal Omkar Esquare, 5th Flr., Eastern Express Highway Opp. Sion-Chunabhatti Signal Sion (East), Mumbai - 400 022
City:	Runwal Omkar Esquare, 5th Flr., Eastern Express Highway Opp. Sion-Chunabhatti Signal Sion (East), Mumbai - 400 022
11.Area of the project	Municipal Corporation of Greater Mumbai (MCGM)
12.IOD/IOA/Concession/Plan Approval Number	IOD Concession plan IOD/IOA/Concession/Plan Approval Number: CE/1375/BPES/AS Approved Built-up Area: 153125
13.Note on the initiated work (If applicable)	construction works started as per previous EC
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	61665.60
16.Deductions	14391.97
17.Net Plot area	42546.27
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 153125.63 b) Non FSI area (sq. m.): 174647.84 c) Total BUA area (sq. m.): 327773.47
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 153125 Approved Non FSI area (sq. m.): 174647.84 Date of Approval: 05-05-2017
19.Total ground coverage (m2)	2629


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SEAC-II)**

20. Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	16.18%
21. Estimated cost of the project	8470000000


22. Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	1	3B + G + P1 +40 flr + 1 Fire Check Flr	-
2	3	3B + G + P1 +40 flr + 1 Fire Check Flr	-
3	4	3B + G + P1 +38 flr + 1 Fire Check Flr	-
4	5-7	3B + G + P1 +36 flr + 1 Fire Check Flr	-
5	8	3B + G + P1 +47 flr + 2 Fire Check Flr	-
6	9	3B + G + P1 +47 flr + 2 Fire Check Flr	-
7	10	3B + G + P1 + 32 flr + 1 Fire Check Flr	-
8	11	3B + G + P1 + 31 flr + 1 Fire Check Flr	-

23. Number of tenants and shops	2036 Units
24. Number of expected residents / users	10574 Nos.
25. Tenant density per hectare	333.77 Nos. 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))	30.5 mt. Existing LBS Road
28. Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Minimum 9 mt
29. Existing structure (s) if any	Existing structure has been demolished as per previous EC
30. Details of the demolition with disposal (If applicable)	It has been complied as per previous EC

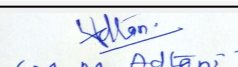
31. Production Details

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


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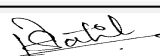
1	Not applicable	Not applicable	Not applicable	Not applicable
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32.Total Water Requirement

Dry season:	Source of water	MCGM
	Fresh water (CMD):	980 KLD (Incl. Swimming Pool) will be sourced from MCGM
	Recycled water - Flushing (CMD):	479 KLD
	Recycled water - Gardening (CMD):	150 KLD
	Swimming pool make up (Cum):	make up water
	Total Water Requirement (CMD) :	1459 KLD
	Fire fighting - Underground water tank(CMD):	1062 CUM
	Fire fighting - Overhead water tank(CMD):	as per requirement
	Excess treated water	452 KLD
Wet season:	Source of water	MCGM/RWH
	Fresh water (CMD):	556 KLD will be sourced from MCGM. 411 KLD will be met from RWH.
	Recycled water - Flushing (CMD):	479 KLD
	Recycled water - Gardening (CMD):	0 KLD
	Swimming pool make up (Cum):	make up water
	Total Water Requirement (CMD) :	1459 KLD
	Fire fighting - Underground water tank(CMD):	1062 CUM
	Fire fighting - Overhead water tank(CMD):	as per requirement
	Excess treated water	602 KLD
Details of Swimming pool (If any)	make water shall be taken from corporation	

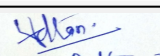
33.Details of Total water consumed

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


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34.Rain Water Harvesting (RWH)	Level of the Ground water table:	5 m
	Size and no of RWH tank(s) and Quantity:	411 CuM
	Location of the RWH tank(s):	Below Ground (2 & 3basement)
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	75 lakhs
	Budgetary allocation (O & M cost) :	7.5 Lakhs per annum
	Details of UGT tanks if any :	domestic flushing tanks has been provided Fire UG tank Capacity : 1062 m3
35.Storm water drainage	Natural water drainage pattern:	as per natural slope
	Quantity of storm water:	4.15 Cum /sec
	Size of SWD:	450 mm to 900mm wide storm water drains .
Sewage and Waste water	Sewage generation in KLD:	1238 m3/day
	STP technology:	MBBR
	Capacity of STP (CMD):	1238 m3/day
	Location & area of the STP:	Below Ground
	Budgetary allocation (Capital cost):	80 lakhs
	Budgetary allocation (O & M cost):	8 lakhs per annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	Excavation material- Shall be used in leveling and backfilling, Scrap steel- Shall be sold to recycler, Waste Block - Shall be used for paving, Flooring/Tiling/Dado- Tiles shall be used for china mosaic water proofing of terraces. - Empty Paint cans - Shall be handed over to recycler Empty cement bags- Shall be handed over to recycler
	Disposal of the construction waste debris:	Excavation material- Shall be used in leveling and backfilling, Scrap steel- Shall be sold to recycler, Waste Block - Shall be used for paving, Flooring/Tiling/Dado- Tiles shall be used for china mosaic water proofing of terraces. - Empty Paint cans - Shall be handed over to recycler Empty cement bags- Shall be handed over to recycler
Waste generation in the operation Phase:	Dry waste:	1844 kg/day
	Wet waste:	2767 kg/day
	Hazardous waste:	-
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	approx. 20 kg/day
	Others if any:	-
Member Secretary SEAC (MMR) Dr. B.N.Patil (Secretary SEAC-II)	SEAC Meeting No: 76th (Part-A) Meeting Date: November 1, 2018	Page 38 of 66 Shri M.M.Adtani (Chairman SEAC-II)

Mode of Disposal of waste:	Dry waste:	Handed over to authorize recycler.
	Wet waste:	Will be treated in OWC to get manure.
	Hazardous waste:	shall be disposed as per CPHEEO rules, if generated
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	shall be ultimately taken as manure
	Others if any:	-
Area requirement:	Location(s):	: On Ground
	Area for the storage of waste & other material:	total area of - OWC 256 sq.mt
	Area for machinery:	total area of - OWC 256 sq.mt
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	30 lakhs
	O & M cost:	10 lakhs per annum

37. Effluent Characteristics

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

38. Hazardous Waste Details


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

39. Stacks emission Details

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

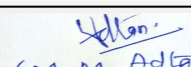
40. Details of Fuel to be used

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


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43.Green Belt Development	Total RG area :	19781.08 Sq.m
	No of trees to be cut :	as per tree NOC
	Number of trees to be planted :	as per tree NOC
	List of proposed native trees :	all trees shall be endemic in nature
	Timeline for completion of plantation :	till completion of project

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

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	Putranjiva roxburghii	Putra jeeva	as per tree noc	endemic tree
2	Madhuca indica	mahua	as per tree noc	endemic tree
3	Lagerstromia flosreginae	tamhan	as per tree noc	endemic tree
4	Azadirachta indica	neem	as per tree noc	endemic 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

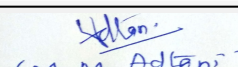
Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	approx 100 kva
	DG set as Power back-up during construction phase	may be used if required
	During Operation phase (Connected load):	-
	During Operation phase (Demand load):	6,782.26 KW
	Transformer:	-
	DG set as Power back-up during operation phase:	shall be used during emergency
	Fuel used:	LSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:


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power saving measures has been adopted
details has been given in EIA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	overall saving - 22.9 %	overall saving - 22.9 %

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:	114 Lakhs
	O & M cost:	15 Lakhs per annum

51.Environmental Management plan Budgetary Allocation


a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Water Sprinkling	To reduce the dispersion of dust arising due to traffic movement.	5
2	Environmental Monitoring	To continuously check the quality of environment parameters	4
3	Health Checkup	Periodical checkup to ensure proper health for construction workers	2
4	Site sanitation	To create hygienic working conditions at site	2
5	Disinfection	To prevent spreading of any disease	2

b) Operation Phase (with Break-up):

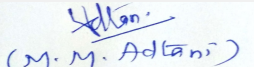
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	water	rainwater harwesting	75	7.5
2	solid waste	MSW	30	10
3	water	STP	80	8
4	Energy	saving	114	15
5	landscaping	landscaping	1357	20.36

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


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

52.Any Other Information

No Information Available

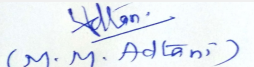
53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	30.5 m wide road abutting layout site which is connected to Eastern Express Highway.
Parking details:	Number and area of basement:	3 basement - 32591 Sq.m per basement
	Number and area of podia:	NA
	Total Parking area:	parking in basement
	Area per car:	big car - 13.75 sq.m. small car - 10.12 sq.m.
	Area per car:	big car - 13.75 sq.m. small car - 10.12 sq.m.
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	2804
	Public Transport:	NA
	Width of all Internal roads (m):	6 meter and above
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA as per ESZ notification
	Category as per schedule of EIA Notification sheet	A
	Court cases pending if any	no
	Other Relevant Informations	Standard TOR has been granted to the proposal by MoEFCC - EAC dated 14th Aug, 2017.


 (Dr. B. N. Patil)
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Dr. B.N.Patil (Secretary SEAC-II)

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	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	17-02-2018


SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	-
Water Budget	Total Water Requirement (Dry season - 1459) & (Wet season - 1459)
Waste Water Treatment	• Sewage generation in KLD: 1238 m3/day • STP technology: MBBR • Capacity of STP (CMD): 1238 m3/day • Location & area of the STP: Below Ground
Drainage pattern of the project	1) Natural water drainage pattern: as per natural slope 2) Quantity of storm water: 4.15 Cum /sec 3) Size of SWD: 450 mm to 900mm wide storm water drains .
Ground water parameters	5 m
Solid Waste Management	Waste generation in the Pre Construction and Construction phase: 1) Waste generation: Excavation material- Shall be used in leveling and backfilling, Scrap steel- Shall be sold to recycler, Waste Block - Shall be used for paving, Flooring/Tiling/Dado- Tiles shall be used for china mosaic water proofing of terraces. - Empty Paint cans - Shall be handed over to recycler Empty cement bags- Shall be handed over to recycler 2) Disposal of the construction waste debris: Excavation material- Shall be used in leveling and backfilling, Scrap steel- Shall be sold to recycler, Waste Block - Shall be used for paving, Flooring/Tiling/Dado- Tiles shall be used for china mosaic water proofing of terraces. - Empty Paint cans - Shall be handed over to recycler Empty cement bags- Shall be handed over to recycler 3) Waste generation in the operation Phase: • Dry waste: 1844 kg/day • Wet waste: 2767 kg/day • Hazardous waste: NA • Biomedical waste (If applicable): NA • STP Sludge (Dry sludge): approx. 20 kg/day • Others if any: NA 4) Mode of Disposal of waste: • Dry waste: Handed over to authorize recycler. • Wet waste: Will be treated in OWC to get manure. • Hazardous waste: shall be disposed as per CPHEEO rules, if generated • Biomedical waste (If applicable): NA • STP Sludge (Dry sludge): shall be ultimately taken as manure • Others if any: NA. 5) Area requirement: • Location(s): On Ground • Area for the storage of waste & other material: total area of - OWC 256 sq.mt • Area for machinery: total area of - OWC 256 sq.mt • Capital cost: 30 lakhs O & M cost: 10 lakhs per annum
Air Quality & Noise Level issues	-
Energy Management	1) Power requirement: • Source of power supply : MSEDCL • During Construction Phase: (Demand Load) approx 100 kva • DG set as Power back-up during construction phase may be used if required • During Operation phase (Connected load): - • During Operation phase (Demand load): 6,782.26 KW • Transformer : - • DG set as Power back-up during operation phase: shall be used during emergency • Fuel used: LSD • Details of high tension line passing through the plot if any: NO 2) Energy saving by non-conventional method: power saving measures has been adopted 3) Detail calculations & % of saving: overall saving - 22.9 %
Traffic circulation system and risk assessment	Nos. of the junction to the main road & design of confluence: 30.5 m wide road abutting layout site which is connected to Eastern Express Highway.
Landscape Plan	Total RG area : 19781.08 Sq.m.
Disaster management system and risk assessment	Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation Minimum 9 mt
Socioeconomic impact assessment	-
Environmental Management Plan	Environmental Management Plan - (Total Cost per annum (Rs. In Lacs)) Water Sprinkling To reduce the dispersion of dust arising due to traffic movement - 5, Environmental Monitoring To continuously check the quality of environment parameters - 4, Health Checkup Periodical checkup to ensure proper health for construction workers - 2, Site sanitation To create hygienic working conditions at site - 2, Disinfection To prevent spreading of any disease - 2


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Any other issues related to environmental sustainability	-
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Brief information of the project by SEAC

Environment Clearance for Runwal Forests At Plot bearing CTS No. 596, 596/1-6, 597, 597/1-7, 598, 598/1-3, 599A, 599A/1-81, 601, 602, 602/1-9, 603, 604, 605, 605/1-17, 606, 606/1-83, 607A, 607/1-31 and 607D of Village - Kanjur, Mumbai Proposed by M/s Wheelabrator Alloy Castings Ltd.

Representative of PP was present during the meeting along with environmental consultant M/s. Enviro Analysts & Engineers Pvt. Ltd. PP informed that, the project has received Environmental Clearance for total construction area of 2,65,942.46 Sq.m. vide letter dated 26th December 2014. Now, the project under consideration for expansion is due to additional FSI and also there are changes in building configuration of all 11 Nos. of towers. PP further stated that, there is addition of residential floors in Tower No. 1 to 9 and reduction in floors for Tower No 10 and 11. Due to this proposed expansion, the total built up area is 3,27,773.47 Sq. m. PP further informed that, TOR has been granted to the proposal by MoEFCC vide dated 14th Aug, 2017. And the total construction work done on site till date is 1,45,488.84 Sq.m, per earlier EC. The proposal was previously considered in 66th meeting of SEAC-II. PP submitted compliance report which is taken on record.

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

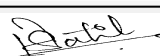
DECISION OF SEAC

PP has complied with the points raised in the 66th meeting of SEAC-2 **hence, Committee decided to recommend the proposal for Environmental Clearance to SEIAA subject to condition that to upload copy of Concession approval given by Municipal Corporation and that condition imposed by Municipal Commissioner in concession given will continue to apply**

Specific Conditions by SEAC:

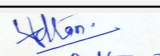
FINAL RECOMMENDATION

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


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Agenda of 76th (Part-A) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 76th (Part-A) Meeting Date November 1, 2018


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

Is a Violation Case: No

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

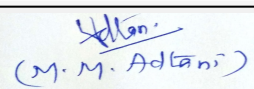
22.Number of buildings & its configuration

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


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

31.Production Details

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

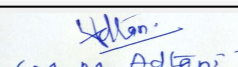
32.Total Water Requirement

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


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Wet season:	Source of water	Tanker Water
	Fresh water (CMD):	514 m3/day
	Recycled water - Flushing (CMD):	195 m3/day
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	879 m3/day
	Fire fighting - Underground water tank(CMD):	250 m3
	Fire fighting - Overhead water tank(CMD):	210 m3
	Excess treated water	216.5 m3/day
Details of Swimming pool (If any)	NA	

33.Details of Total water consumed

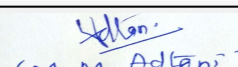
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	As per geo- hydrological survey report
	Size and no of RWH tank(s) and Quantity:	1 no. of 250 m3
	Location of the RWH tank(s):	Below Ground
	Quantity of recharge pits:	07 Nos.
	Size of recharge pits :	3 m x 3 m x 1.5 m
	Budgetary allocation (Capital cost) :	Rs.18 Lakhs
	Budgetary allocation (O & M cost) :	Rs.1.45 Lakhs/Annum
	Details of UGT tanks if any :	i. Domestic Water tank Capacity: 69.44 m3 ii. Drinking Water tank Capacity: 47.74 m3 iii. Flushing tank Capacity: 32.55 m3 iv. U. G. Fire tank capacity: 250 m3



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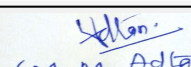

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35.Storm water drainage	Natural water drainage pattern:	As per gravity
	Quantity of storm water:	0.754 cum/sec
	Size of SWD:	750 mm
Sewage and Waste water	Sewage generation in KLD:	558
	STP technology:	MBR technology
	Capacity of STP (CMD):	1 No. of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


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Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.0 - 8.5	5.5 - 9.0	6.5 - 9.0
2	Oil & Grease	mg/L	10 - 20	< 10	10
3	BOD	mg/L	200 - 250	< 10	10
4	COD	mg/L	350 - 450	< 60	50
5	TSS	mg/L	150 - 200	< 10	20
Amount of effluent generation (CMD):		85			
Capacity of the ETP:		145			
Amount of treated effluent recycled :		Not applicable			
Amount of water send to the CETP:		Not applicable			
Membership of CETP (if require):		Not applicable			
Note on ETP technology to be used		ASP			
Disposal of the ETP sludge		Handed over to authorized vendor for disposal			

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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

41.Source of Fuel

Local Market

42.Mode of Transportation of fuel to site


Road Transport

43.Green Belt Development

Total RG area :	5,193.97 m ²
No of trees to be cut :	31
Number of trees to be planted :	Nos. of existing trees: 162, Nos. of trees to be retained: 79 & Nos. of trees to be transplanted: 52
List of proposed native trees :	Karanja, Badam, Shevga, Ashoka etc.
Timeline for completion of plantation :	Two years

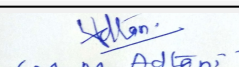
44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
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1	Samanea saman	Rain tree	1	The root decoction is used in hot baths for stomach cancer in Venezuela. Rain Tree is a traditional remedy for colds, diarrhea, headache, intestinal ailments and stomachache
2	Tamarindus indica	Tamarind Tree	3	The tamarind tree produces edible, pod-like fruit which is used extensively in cuisines around the world
3	Peltophorum pterocarpum	Paltophorum Tree	5	The tree is widely grown in tropical regions as an ornamental tree, particularly in India the foliage is used as a fodder crop.
4	Saraca asoca	Ashoka Tree	47	Capsules and ointments prepared from Ashok tree can be used as a natural supplement of great benefit to treat irritations and burning sensation in the skin and complexion
5	Mangifera indica	Mango Tree	25	The tender leaves of the mango tree are considered useful in diabetes
6	Caryota urens	Fishtail Tree	1	Solitary fishtail palm is cultivated both for its products and as an ornamental.
7	Caryota urens	Fishtail Tree	1	Solitary fishtail palm is cultivated both for its products and as an ornamental.
8	-	Sandpaper Tree	1	Used for medicinal purpose
9	Cocos nucifera	Coconut Tree	10	Every part has a use, including the fruits, wood, and leaves
10	Pithecellobium dulce	Vilayti Chinch Tree	1	Used as food & Medicine
11	Pongamia pinnata	Karanja Tree	4	Karanja is an important Ayurvedic medicine, used predominantly in skin diseases
12	Michelia champaca	Chaffa Tree	1	Used for medicinal purpose
13	Moringa oleifera	Shevga Tree	1	Used for medicinal purpose
14	Artocarpus heterophyllus	Jackfruit Tree	8	The leaves of jackfruit tree are useful for curing fever, boils and skin diseases. When heated, they prove useful in curing wounds
15	Syzygium cumini	Jamun Tree	3	Used for medicinal purpose
16	Cocos nucifera	Taad Tree	3	Providing shade
17	Terminalia catap	Badam Tree	4	Used as food & Medicine
18	Ficus racemosa	Umbur Tree	2	Used for medicinal purpose
19	Ficus religiosa	Peepal Tree	2	Used for medicinal purpose applied in eyes for eye pain
20	Psidium guajava	Peru Tree	2	Used as a food & Medicinal purpose
21	-	Jungali Grewia Tree	1	Used for Medicinal purpose
22	Manilkara zapota	Chiku Tree	1	Used as a food & Medicinal purpose

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

45.Total quantity of plants on ground

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

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

47.Energy

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

48.Energy saving by non-conventional method:


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

49.Detail calculations & % of saving:

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

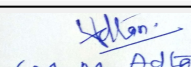
50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
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Wastewater: Sewage generation from users & effluent from Lab and washing	Not applicable	STP for sewage treatment & ETP for effluent from lab & washing
Air emission: DG set	Not applicable	Adequate stack height
Solid waste	Not applicable	Proper collection, segregation, handling, storage and disposal facility

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 60 Lakhs
	O & M cost:	Rs. 3 Lakhs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):


Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust generation	Water for Dust Suppression	5
2	Workers/labourers	Site Sanitation & Safety	8
3	Air, water, noise	Environmental Monitoring	5
4	-	Disinfection	4
5	All relevant parameters	Health Check up	3

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Wastewater	STP Cost	240	19.2
2	Solid waste	Solid Waste Management	8.0	2.0
3	Green area	Green Belt development	40.0	2.0
4	Groundwater recharge	Rain water harvesting	18	1.45
5	Energy	Energy Efficient equipments	60	3.0
6	Air, water, noise, soil	Environmental monitoring	-	3.0

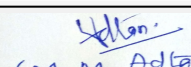
51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation



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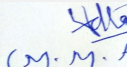

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Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
52. Any Other Information							
No Information Available							
53. Traffic Management							
	Nos. of the junction to the main road & design of confluence:	5 Nos.					
Parking details:	Number and area of basement:	1 No. of 7,180 m ²					
	Number and area of podia:	NA					
	Total Parking area:	4,200 Sq. m					
	Area per car:	28.76 Sq. m					
	Area per car:	28.76 Sq. m					
	Number of 2-Wheelers as approved by competent authority:	NA					
	Number of 4-Wheelers as approved by competent authority:	146 Nos.					
	Public Transport:	Bus stop & Auto Rickshaw stand near Entry Gate					
	Width of all Internal roads (m):	6 m					
	CRZ/ RRZ clearance obtain, if any:	NA					
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA					
	Category as per schedule of EIA Notification sheet	'B' schedule 8 (a)					
	Court cases pending if any	NA					
	Other Relevant Informations	NA					
	Have you previously submitted Application online on MOEF Website.	Yes					
	Date of online submission	16-04-2016					
SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS							


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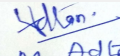
Environmental Impacts of the project	-
Water Budget	-
Waste Water Treatment	-
Drainage pattern of the project	-
Ground water parameters	-
Solid Waste Management	-
Air Quality & Noise Level issues	-
Energy Management	-
Traffic circulation system and risk assessment	-
Landscape Plan	-
Disaster management 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-0000000157


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 (M. M. Adtani)
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Environment Clearance for 8(a) Building & construction projects, B2 Category at C. T. S. No. 245, Village Mandapeshwar & C. T. S. No. 1409, 1412, 1413 & 1414 of Village Eksar at Borivali West, Mumbai by Municipal Corporation of Greater Mumbai (Bhagwati Hospital).

Representative of PP was present during the meeting along with environmental consultant Green circle, Inc. PP informed that the project under consideration is redevelopment project and proposed development is for hospital with 868 beds.

PP informed that, the project was considered in 49th SEAC-2 meeting held in August, 2016 & the proposal recommended to SEIAA subject to compliance of conditions. The project was considered by SEIAA & refer back to committee.

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

DECISION OF SEAC


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

Specific Conditions by SEAC:

- 1) Committee noted that, PP & Environment Consultant has not revised the consolidated Statement (CS) & also not uploaded as directed by SEIAA. PP to upload the revised CS.
- 2) PP has not submitted the compliance for point 1 i.e "PP to submit demolition & debris disposal /waste management plan". PP to submit & upload the same.
- 3) PP has not submitted again the biomedical waste disposal plan & authorisation from MPCB. Also not submitted membership status with the disposal facility. PP to submit the same.
- 4) PP to upload agreement copy with SMS agency.
- 5) PP agreed to treat laboratory effluent in etp OF 145 M3/DAY and domestic waste with STP of 575 M3/DAY capacity.
- 6) PP to submit & upload ETP/STP locations on ground and on layout.
- 7) PP to ensure that treated waste water & waste from ETP should be disposed of scientifically with the permission of MPCB as per biomedical waste rule.
- 8) PP to submit & upload the detail energy calculation & saving
- 9) PP to provide solar heater for hot water. PP to submit the details.\
- 10) EMP/DMP should be uploaded.
- 11) PP to submit & upload RG calculations.
- 12) PP to upload CFO NOC with respect to new construction.
- 13) PP to revise and submit evacuation time statement.

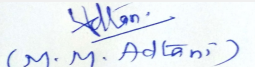
FINAL RECOMMENDATION

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


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Agenda of 76th (Part-A) Meeting of State Expert Appraisal Committee-2 (SEAC-2)

SEAC Meeting number: 76th (Part-A) Meeting Date November 1, 2018


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

Is a Violation Case: No

1.Name of Project	"M. M. Malviya Shatabdi Hospital "
2.Type of institution	Semi Government
3.Name of Project Proponent	Municipal Corporation of Greater Mumbai (MCGM)
4.Name of Consultant	Green Circle, Inc.
5.Type of project	Hospital Project
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 has been obtained for existing project (File No. SEAC-2010/CR.224/TC.1)
8.Location of the project	CTS. No. 372, 371/1 at village Borla and CTS No. 301/1A, 306, 308/A, 308/B, 307 & 309 A at Village Deaonar at Govandi Mumbai
9.Taluka	Govandi
10.Village	Deaonar & Borla
11.Area of the project	MCGM
12.IOD/IOA/Concession/Plan Approval Number	Approval from B.P (Spl. cell)
	IOD/IOA/Concession/Plan Approval Number: CHE/43/B.P.(Spl. Cell)/AME/337 Dt.22 NOV 2016
	Approved Built-up Area: 70766.99
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.)	34,675.38 m2
16.Deductions	5201.31 m2
17.Net Plot area	29,474.07 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): 53,055.27 m2
	b) Non FSI area (sq. m.): 17,711.72 m2
	c) Total BUA area (sq. m.): 70766.99
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)	10820
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	43
21.Estimated cost of the project	3150000000

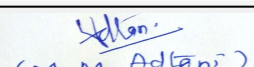
22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Main hospital building x 1 No.	Basement + Ground+10 Floors	44.95
2	Service Building x 3 Nos.	Ground	3.5
3	Plasma centre	Ground +1	7
4	Electric substation	Ground	3.5


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23.Number of tenants and shops	862 Nos. beds
24.Number of expected residents / users	1398
25.Tenant density per hectare	300/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))	17 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	1 Building: G + 2 Upper Floors with post mortem centre, Total BUA: 36,014.57 m ²
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

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

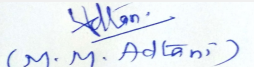
32.Total Water Requirement

Dry season:	Source of water	MCGM water supply
	Fresh water (CMD):	487
	Recycled water - Flushing (CMD):	194 m ³ /day
	Recycled water - Gardening (CMD):	44 m ³ /day
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	895 m ³ /day
	Fire fighting - Underground water tank(CMD):	250 m ³
	Fire fighting - Overhead water tank(CMD):	210 m ³
	Excess treated water	144 m ³ /day


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Wet season:	Source of water	MCGM water supply
	Fresh water (CMD):	487
	Recycled water - Flushing (CMD):	194 m3/day
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	851 m3/day
	Fire fighting - Underground water tank(CMD):	250 m3
	Fire fighting - Overhead water tank(CMD):	210 m3
	Excess treated water	188 m3/day

Details of Swimming pool (If any)


NA

33.Details of Total water consumed

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

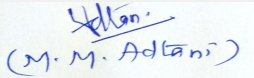
34.Rain Water Harvesting (RWH)

Level of the Ground water table:	As per geo- hydrological survey report
Size and no of RWH tank(s) and Quantity:	1 no. of 288 m3
Location of the RWH tank(s):	Below Ground
Quantity of recharge pits:	10 Nos.
Size of recharge pits :	3m x 3 m x 1.5 m
Budgetary allocation (Capital cost) :	Rs. 30.33 Lacs
Budgetary allocation (O & M cost) :	Rs. 2.40 Lakhs / Annum
Details of UGT tanks if any :	i. Domestic Water tank Capacity: 68.96 m3 ii. Drinking Water tank Capacity: 47.41 m3 iii. Flushing tank Capacity: 32.325 m3 iv. U. G. Fire tank capacity: 250 m3



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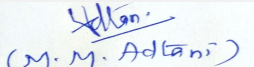

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35.Storm water drainage	Natural water drainage pattern:	As per gravity
	Quantity of storm water:	1.58 cum/sec
	Size of SWD:	1000 mm
Sewage and Waste water	Sewage generation in KLD:	554 m ³ /day
	STP technology:	MBR technology
	Capacity of STP (CMD):	1 No. of 575 m ³ /day
	Location & area of the STP:	Below Ground
	Budgetary allocation (Capital cost):	Rs. 210 lakhs
	Budgetary allocation (O & M cost):	Rs. 16.8 lakhs / Annum
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	35 kg /day
	Disposal of the construction waste debris:	Construction debris, Waste concrete and broken bricks will be utilized in low-land leveling, secondary concrete, below roads. Some quantity of Excavation soil will be use for backfilling and remaining will be hand over to authorized vendor.
Waste generation in the operation Phase:	Dry waste:	172 kg/day
	Wet waste:	259 kg/day
	Hazardous waste:	spent oil or oil grease for DG sets paints etc.
	Biomedical waste (If applicable):	1933 kg/Month
	STP Sludge (Dry sludge):	28 kg/day
	Others if any:	NA
Mode of Disposal of waste:	Dry waste:	Collected by concern authorities (MCGM) & disposed off.
	Wet waste:	Collected by concern authorities (MCGM) & disposed off.
	Hazardous waste:	Handed over to authorized Vendor
	Biomedical waste (If applicable):	The biomedical waste will be collected as per different Categories in the different color coded bags and handed over to MCGM as per the Biomedical waste management rules, 2016
	STP Sludge (Dry sludge):	Will be used as manure for gardening
	Others if any:	NA
Area requirement:	Location(s):	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	NA
	O & M cost:	NA
37.Effluent Charecterestics		


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Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6.0 - 8.5	5.5 - 9.0	6.5 - 9.0
2	Oil & Grease	mg/L	10 - 20	< 10	10
3	BOD	mg/L	200 - 250	< 10	10
4	COD	mg/L	350 - 450	< 60	50
5	TSS	mg/L	150 - 200	< 10	20
Amount of effluent generation (CMD):		60			
Capacity of the ETP:		115 m3/day			
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		MBR Technology			
Disposal of the ETP sludge		Will be treated through STP			

38.Hazardous Waste Details

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

39.Stacks emission Details

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

40.Details of Fuel to be used

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


41.Source of Fuel Local Market

42.Mode of Transportation of fuel to site Road Transport

43.Green Belt Development	Total RG area :	8884.21 m2
	No of trees to be cut :	6
	Number of trees to be planted :	Nos. of Existing trees : 250 , Nos. of trees to be transplanted: 57
	List of proposed native trees :	Neem , Badam, Mango tree etc.
	Timeline for completion of plantation :	Two Years

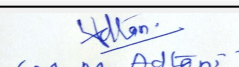
44.Number and list of trees species to be planted in the ground

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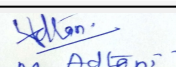

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1	Samanea saman	Rain tree	-	The root decoction is used in hot baths for stomach cancer in Venezuela. Rain Tree is a traditional remedy for colds, diarrhea, headache, intestinal ailments and stomachache
2	Tamarindus indica	Tamarind Tree	-	The tamarind tree produces edible, pod-like fruit which is used extensively in cuisines around the world
3	Peltophorum pterocarpum	Paltophorum Tree	2	The tree is widely grown in tropical regions as an ornamental tree, particularly in India the foliage is used as a fodder crop
4	Saraca asoca	Ashoka Tree	27	Capsules and ointments prepared from Ashok tree can be used as a natural supplement of great benefit to treat irritations and burning sensation in the skin and complexion.
5	-	Sandpaper Tree	-	Used for medicinal purpose
6	Mangifera indica	Mango Tree	7	The tender leaves of the mango tree are considered useful in diabetes.
7	Caryota urens	Fishtail Tree	-	Solitary fishtail palm is cultivated both for its products and as an ornamental.
8	Azadiracta indica	Neem Tree	-	Neem leaf is used for leprosy, eye disorders, bloody nose, intestinal worms, stomach upset, loss of appetite, skin ulcers, diseases of the heart and blood vessels (cardiovascular disease), fever, diabetes, gum disease (gingivitis), and liver problems
9	Cocos nucifera	Coconut Tree	1	Every part has a use, including the fruits, wood, and leaves.
10	Pithecellobium dulce	Vilayti Chinch Tree	1	Used as food & Medicine
11	Pongamia pinnata	Karanja Tree	2	Karanja is an important Ayurvedic medicine, used predominantly in skin diseases.
12	Michelia champaca	Chaffa Tree	1	Used for medicinal purpose
13	Moringa oleifera	Shevga Tree	1	Used for medicinal purpose
14	Artocarpus heterophyllus	Jackfruit Tree	3	The leaves of jackfruit tree are useful for curing fever, boils and skin diseases. When heated, they prove useful in curing wounds.
15	Syzygium cumini	Jamun Tree	1	Used for medicinal purpose
16	Cocos nucifera	Taad Tree	-	Providing shade
17	Terminalia catap	Badam Tree	-	Used as food & Medicine
18	Ficus racemosa	Umber Tree	1	Used for medicinal purpose
19	Ficus religiosa	Peepal Tree	1	Used for medicinal purpose applied in eyes for eye pain
20	Psidium guajava	Peru Tree	1	Used as a food & Medicinal purpose


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21	-	Jungali Grewia Tree	-	Used for Medicinal purpose
22	Manilkara zapota	Chiku Tree	-	Used as a food & Medicinal purpose
23	Trema orientalis	Trema Tree	-	The wood is suitable for paper and pulp production
24	Putranjiva roxaburghii	Putranjiva Tree	-	Used for Medicinal purpose for fever
25	Latania loddigesii	Fan palm Tree	3	Providing shade
26	Araucaria columnaris	X- Mas Tree	2	-
27	Areca catechu	Supari Tree	2	Used as a food & Medicinal purpose
28	Abelmoschus esculentus	Bhendi Tree	1	Used as a food & Medicinal purpose
45.Total quantity of plants on ground				

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

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

47.Energy

Power requirement:	Source of power supply :	Reliance Energy/DG set
	During Construction Phase: (Demand Load)	3164.20 KW
	DG set as Power back-up during construction phase	1 No. & 200 KVA
	During Operation phase (Connected load):	7785.15 KW
	During Operation phase (Demand load):	3164.20 KW
	Transformer:	Outdoor type with OLTC & RTCC,OIL type transformer having 11 KV/0.415 KV voltage levels low loss type with rating of 1500 KVA
	DG set as Power back-up during operation phase:	3 Nos. x 2000 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

1. By using LED fixtures in all areas of hospital compared to T8 / CFL lamps
2. Savings through lamp
3. Savings through timer / sensor
4. Savings through use of VFD driven hydro pneumatic plumbing systems, LIFTS and HVAC @ 25% minimum
5. Savings through capacitors for common area load
6. Savings due to reactive Power Control

49.Detail calculations & % of saving:

 (Dr. B. N. Patil) Member Secretary SEAC (MMR) Dr. B.N.Patil (Secretary SEAC-II)	SEAC Meeting No: 76th (Part-A) Meeting Date: November 1, 2018	Page 62 of 66	 (M. M. Adtani) Shri M.M.Adtani (Chairman SEAC-II)
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Serial Number	Energy Conservation Measures	Saving %
1	By using LED fixtures, time sensor, VFD driven hydropneumatic plumbing systems, capacitors	28.56 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Wastewater: Sewage generation from users & effluent from Lab and washing	NA	STP for sewage treatment & ETP for effluent from lab & washing
Air emission: DG set	NA	Adequate stack height
Solid waste	NA	Proper collection, segregation, handling, storage and disposal facility

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 6,36,72,325
	O & M cost:	Rs. 50,93,786/annum

51.Environmental Management plan Budgetary Allocation

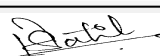
a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Dust Generation	Water for Dust Suppression	5
2	Workers and Labours	Site Sanitation & Safety	8
3	Air, Water , Noise	Environmental Monitoring	5
4	-	Disinfection	4
5	All relevant parameters	Health Check up	3

b) Operation Phase (with Break-up):

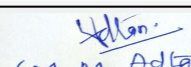
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Wastewater	STP & ETP Cost	210	16.8
2	Solid waste	Solid Waste Management	210	6.3
3	Green area	Green Belt development	110	4
4	Groundwater recharge	Rain water harvesting	30.33	2.40
5	Energy	Energy Efficient equipments	636.72	50.94
6	Air, water, noise, soil	Environmental monitoring	-	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

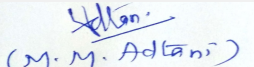
53. Traffic Management

	Nos. of the junction to the main road & design of confluence:	2. Nos.
Parking details:	Number and area of basement:	1 No. of 8243.2 m ²
	Number and area of podia:	NA
	Total Parking area:	4946 m ²
	Area per car:	28.30 Sq. m
	Area per car:	28.30 Sq. m
	Number of 2-Wheelers as approved by competent authority:	NA
	Number of 4-Wheelers as approved by competent authority:	144 Nos.
	Public Transport:	Bus stop & Auto rickshaw stand near entrance gate.
	Width of all Internal roads (m):	6 m
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	'B2'
	Court cases pending if any	NA
	Other Relevant Informations	NA


(Dr. B. N. Patil)
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	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	16-04-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

Brief information of the project by SEAC

Environment Clearance for 8(a) Building & construction projects, B2 Category at CTS. No. 372, 371/1 at village Borla and CTS No. 301/1A, 306, 308/A, 308/B, 307 & 309 A at Village Deonar at Govandi Mumbai by Municipal Corporation of Greater Mumbai (MCGM)

Representative of PP was present during the meeting along with environmental consultant Green circle, Inc...

PP informed that they have received earlier EC vide letter dated 22/11/2010. However, PP informed that no construction undertaken. Now proposal is for B+G+10 flrs+3 service sections and one electric substation. Maximum height is 44.95 m.

PP informed that, the project was considered in 49th SEAC-2 meeting held in August, 2016 & the proposal recommended to SEIAA subject to compliance of conditions. The project was considered by SEIAA & refer back to committee.

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

DECISION OF SEAC


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

Specific Conditions by SEAC:

- 1) Committee noted that, PP & Environment Consultant has not revised the consolidated Statement (CS) & also not uploaded as directed by SEIAA. PP to upload the revised CS.
- 2) PP has not submitted the compliance for point 1 i.e "PP to submit demolition & debris disposal /waste management plan". PP to submit & upload the same.
- 3) PP has not submitted again the biomedical waste disposal plan & authorisation from MPCB. Also not submitted membership status with the disposal facility. PP to submit the same.
- 4) PP to upload agreement copy with SMS agency.
- 5) PP agreed to treat laboratory effluent in etp OF 145 M3/DAY and domestic waste with STP of 575 M3/DAY capacity.
- 6) PP to submit & upload ETP/STP locations on ground and on layout.
- 7) PP to ensure that treated waste water & waste from ETP should be disposed of scientifically with the permission of MPCB as per biomedical waste rule.
- 8) PP to submit & upload the detail energy calculation & saving
- 9) PP to provide solar heater for hot water. PP to submit the details.\
- 10) EMP/DMP should be uploaded.
- 11) PP to submit & upload RG calculations.
- 12) PP to upload CFO NOC with respect to new construction
- 13) PP to revise and submit evacuation time statement.

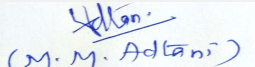
FINAL RECOMMENDATION

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


(Dr. B. N. Patil)
Member Secretary
SEAC (MMR)
**Dr. B.N.Patil (Secretary
SEAC-II)**

**SEAC Meeting No: 76th (Part-A) Meeting Date:
November 1, 2018**

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