# 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

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|---|---|
| **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<br>**IOD/IOA/Concession/Plan Approval Number:** CE/4813/BPSES/AT<br>**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** | 180125000000 |

## 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 |

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| **23.Number of tenants and shops** | Existing Buildings prior to EIA Notification: Total Flats – 187 Nos.<br>Building under purview of EIA Notification:<br>Residential Buildings: Total Flats – 1940 Nos.<br>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/hectors |
| **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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|---|---|---|
| **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<br>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 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

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| **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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| **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 Charecterestics

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

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

## 38.Hazardous Waste Details

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

## 39.Stacks emission Details

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

## 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

| | | |
|---|---|---|
| **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 |

## 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 |

| | | | | |
|---|---|---|---|---|
| 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 (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 entry and exists |

| | | |
|---|---|---|
| **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** | • 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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|---|---|
| **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** | - |

## 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 rreceived 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 + 15$^{th}$ floors. Plinth Completion Certificates of these buildings were before 7$^{th}$ 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 69$^{th}$ 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

## 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 Bunglows, 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

| 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<br>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

| | | |
|---|---|---|
| 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) | | |
|---|---|---|---|---|---|---|---|---|---|
| **Water Requirement** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** |
| Domestic | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | 2.2 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<br>Flushing Water Tank : 290 KLD<br>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 |

| | | |
|---|---|---|
| **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 Charecterestics

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

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

## 38.Hazardous Waste Details

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

## 39.Stacks emission Details

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

## 40.Details of Fuel to be used

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

| | |
|---|---|
| 42.Mode of Transportation of fuel to site | Not applicable |

| | | |
|---|---|---|
| **43.Green Belt Development** | **Total RG area :** | 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

| | | |
|---|---|---|
| **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 |

| | | | |
|---|---|---|---|
| 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 (inflamable/explosive/hazardous/toxic substances)

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

## 52.Any Other Information

No Information Available

## 53.Traffic Management

| | | |
|---|---|---|
| | **Nos. of the junction to the main road & design of confluence:** | The project site is accessible through the existing 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 |

| | | |
|---|---|---|
| | **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 m3/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 % |

| | |
|---|---|
| **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

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

## 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 environmetal 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 Infinia" |
| **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

| 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.<br>Rehab Bldg. – 2= 69nos.<br>Rehab Bldg. – 3= 344nos.<br>Rehab Bldg. – 4= 200nos.<br>Rehab Bldg. – 5= 11nos.<br>Sale Bldg. wing A = 140nos.<br>Sale Bldg. wing B = 214nos.<br>Sale Bldg. wing C = 144nos.<br>No. of Shops<br>Rehab Shop = 10 nos.<br>Sale Shop = 14 nos. |
| **24.Number of expected residents / users** | 7902 |
| **25.Tenant density per hectare** | 500 nos. /hector |
| **26.Height of the building(s)** | |
| **27.Right of way (Width of the road from the nearest fire station to the proposed building(s)** | 13.40 m wide 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

| | | |
|---|---|---|
| Dry season: | **Source of water** | MCGM/Recyled 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/Recyled 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) | | |
|---|---|---|---|---|---|---|---|---|---|
| **Water Requirement** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** |
| Domestic | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | 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), tota l 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 |

| | | |
|---|---|---|
| **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 |

| | | |
|---|---|---|
| **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

| | | |
|---|---|---|
| **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 |

| | | | |
|---|---|---|---|
| 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 |

| | | |
|---|---|---|
| | **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

**Environment Clearance for Application for grant of environmetal 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 Dhobhighat 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.

## 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 |

| | |
|---|---|
| **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) |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 1 | Not applicable | Not applicable | Not applicable | Not applicable |

## 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) | | |
|---|---|---|---|---|---|---|---|---|---|
| **Water Requirement** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** |
| Domestic | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | 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<br>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:** | - |

| | | |
|---|---|---|
| **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 Charecterestics

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

## 38.Hazardous Waste Details

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

## 39.Stacks emission Details

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

## 40.Details of Fuel to be used

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

| | | |
|---|---|---|
| **43.Green Belt Development** | **Total RG area :** | 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:

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 (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:** | 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. |

| | | |
|---|---|---|
| | **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 |

| | |
|---|---|
| **Any other issues related to environmental sustainability** | - |

## 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

## 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 m2 |
| **16.Deductions** | 1,771.17 m2 |
| **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 (m2)** | 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 | - | - |

| | |
|---|---|
| **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 |

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

## 33.Details of Total water consumed

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

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

| | | |
|---|---|---|
| **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** | | |

| 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 m2 |
| | **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 |
|---|---|---|---|---|

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

| | | | | |
|---|---|---|---|---|
| 23 | Trema orientalis | Trema Tree | 1 | The wood is suitable for paper and pulp production |
| 24 | Trema orientalis | Trema Tree | 1 | The wood is suitable for paper and pulp production |
| 25 | Latania loddigesii | Fan palm Tree | 1 | Providing shade |
| 26 | Araucaria columnaris | X- Mas Tree | 1 | - |
| **45.Total quantity of plants on ground** | | | | |

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

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

## 47.Energy

| | | |
|---|---|---|
| **Power requirement:** | **Source of power supply :** | Tata Power |
| | **During Construction Phase: (Demand Load)** | 150 KW |
| | **DG set as Power back-up during construction phase** | 1 No. x 200 KW |
| | **During Operation phase (Connected load):** | 2,938.48 KW |
| | **During Operation phase (Demand load):** | 898.54 KW |
| | **Transformer:** | Outoor 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 |
|---|---|---|

| | | |
|---|---|---|
| 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 (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:** | 5 Nos. |
| **Parking details:** | **Number and area of basement:** | 1 No. of 7,180 m2 |
| | **Number and area of podia:** | NA |
| | **Total Parking area:** | 4,200 Sq. m |
| | **Area per car:** | 28.76 Sq. m |
| | **Area per car:** | 28.76 Sq. m |
| | **Number of 2-Wheelers as approved by competent authority:** | NA |
| | **Number of 4-Wheelers as approved by competent authority:** | 146 Nos. |
| | **Public Transport:** | Bus stop & Auto Rickshaw stand near Entry Gate |
| | **Width of all Internal roads (m):** | 6 m |
| | **CRZ/ RRZ clearance obtain, if any:** | NA |
| | **Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries** | NA |
| | **Category as per schedule of EIA Notification sheet** | 'B' schedule 8 (a) |
| | **Court cases pending if any** | NA |
| | **Other Relevant Informations** | NA |
| | **Have you previously submitted Application online on MOEF Website.** | Yes |
| | **Date of online submission** | 16-04-2016 |

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

## Brief information of the project by SEAC

**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.

**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 |

| | |
|---|---|
| **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 m2 |
| **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 m3/day |
| | **Recycled water - Gardening (CMD):** | 44 m3/day |
| | **Swimming pool make up (Cum):** | NA |
| | **Total Water Requirement (CMD) :** | 895 m3/day |
| | **Fire fighting - Underground water tank(CMD):** | 250 m3 |
| | **Fire fighting - Overhead water tank(CMD):** | 210 m3 |
| | **Excess treated water** | 144 m3/day |

| | | |
|---|---|---|
| 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) | | |
|---|---|---|---|---|---|---|---|---|---|
| **Water Requirement** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** |
| Domestic | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | As per geo- hydrological survey report |
| | **Size and no of RWH tank(s) and Quantity:** | 1 no. of 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<br>ii. Drinking Water tank Capacity: 47.41 m3<br>iii. Flushing tank Capacity: 32.325 m3<br>iv. U. G. Fire tank capacity: 250 m3 |

| | | |
|---|---|---|
| **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 m3/day |
| | **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. 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

| 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 |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 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 |

| | | | | |
|---|---|---|---|---|
| 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:** | Outoor 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:

| 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)

| 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 m2 |
| | **Number and area of podia:** | NA |
| | **Total Parking area:** | 4946 m2 |
| | **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 |

| | | |
|---|---|---|
| | **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 Deaonar 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.