



## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,  
Room No. 217, 2nd floor,  
Mantralaya, Annexe,  
Mumbai- 400 032.  
Date: June 25, 2019

To,  
**Girish Chheda; Shivam Developers**  
at Plot bearing CTS No. 163-A (pt) of village Akurli, Kandivali (E), Mumbai.

**Subject:** Environment Clearance for proposed modernization/ amendment in Environmental Clearance for Residential Project with SRA Scheme at Land bearing plot CTS No. 163 A(pt) of village Akurli, Kandivali (E), Mumbai, Maharashtra proposed by Shivam Developers

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-II, Maharashtra in its 101st meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 169th meetings.

2. It is noted that the proposal is considered by SEAC-II under screening category 8 (b) as per EIA Notification 2006.

### Brief Information of the project submitted by you is as below :-

|                                                                                                        |                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.Name of Project                                                                                      | M/s. Shivam Developers (Residential cum Commercial Project with SRA scheme)                                                                                                                                                                      |
| 2.Type of institution                                                                                  | Private                                                                                                                                                                                                                                          |
| 3.Name of Project Proponent                                                                            | Girish Chheda; Shivam Developers                                                                                                                                                                                                                 |
| 4.Name of Consultant                                                                                   | Mahabul Enviro Engg. Pvt. Ltd.; Dr. D. A. Patil                                                                                                                                                                                                  |
| 5.Type of project                                                                                      | Housing project with SRA Scheme                                                                                                                                                                                                                  |
| 6.New project/expansion in existing project/modernization/diversification in existing project          | Modernization/ Amendment in Environmental Clearance                                                                                                                                                                                              |
| 7.If expansion/diversification, whether environmental clearance has been obtained for existing project | Obtained EC vide letter No. SEIAA-EC-0000000414 dt. 17.09.2018 for the plot area of 63,918.35 m <sup>2</sup> having FSI area: 2,29,862.84, Non-FSI area: 1,90,164.19 m <sup>2</sup> and the Total construction area: 4,20,0027.03 m <sup>2</sup> |
| 8.Location of the project                                                                              | Plot bearing CTS No. 163-A (pt) of village Akurli, Kandivali (E), Mumbai.                                                                                                                                                                        |
| 9.Taluka                                                                                               | Borivali                                                                                                                                                                                                                                         |
| 10.Village                                                                                             | Akurli                                                                                                                                                                                                                                           |
| Correspondence Name:                                                                                   | Girish Chheda, SHIVAM DEVELOPERS                                                                                                                                                                                                                 |
| Room Number:                                                                                           | -                                                                                                                                                                                                                                                |
| Floor:                                                                                                 | -                                                                                                                                                                                                                                                |
| Building Name:                                                                                         | 218, Prem Baug                                                                                                                                                                                                                                   |
| Road/Street Name:                                                                                      | Sir Bhalchandra Road                                                                                                                                                                                                                             |
| Locality:                                                                                              | Matunga C.R.                                                                                                                                                                                                                                     |
| City:                                                                                                  | Mumbai 400019                                                                                                                                                                                                                                    |
| 11.Whether in Corporation / Municipal / other area                                                     | Planning Authority: Slum Rehabilitation Authority (SRA), Municipal Corporation: MCGM                                                                                                                                                             |

|                                                                                     |                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.IOD/IOA/Concession/Plan Approval Number</b>                                   | Rehab Bldg. A-4 IOD No. SRA/ENG/26339/RS/MHL/AP 29.12.2017. Rehab Bldg. A-5 IOD No. SRA/ENG/2270/RS/MHL/AP 20.06.2013. Sale S-1 Bldg. IOD No. SRA/ENG/3069/RS/MHL/AP 26.05.2017. |
|                                                                                     | <b>IOD/IOA/Concession/Plan Approval Number:</b> REVISED LOI : SRA/ENG/1395/RS/MHL/AP dated 14.06.2016                                                                            |
|                                                                                     | <b>Approved Built-up Area:</b> 275373.96                                                                                                                                         |
| <b>13.Note on the initiated work (If applicable)</b>                                | The construction is going on as per EC received.                                                                                                                                 |
| <b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>               | REVISED LOI : SRA/ENG/1395/RS/MHL/AP dated 14.06.2016                                                                                                                            |
| <b>15.Total Plot Area (sq. m.)</b>                                                  | 63,918.35 m2                                                                                                                                                                     |
| <b>16.Deductions</b>                                                                | 12,159.81 m2                                                                                                                                                                     |
| <b>17.Net Plot area</b>                                                             | 51,758.54 m2                                                                                                                                                                     |
| <b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>                            | <b>FSI area (sq. m.):</b> 2,29,862.84 m2                                                                                                                                         |
|                                                                                     | <b>Non FSI area (sq. m.):</b> 1,99,893.45 m2                                                                                                                                     |
|                                                                                     | <b>Total BUA area (sq. m.):</b> 429756.29                                                                                                                                        |
| <b>18 (b).Approved Built up area as per DCR</b>                                     | <b>Approved FSI area (sq. m.):</b> 1,54,017.72 m2                                                                                                                                |
|                                                                                     | <b>Approved Non FSI area (sq. m.):</b> 1,21,356.24 m2                                                                                                                            |
|                                                                                     | <b>Date of Approval:</b> 14-06-2016                                                                                                                                              |
| <b>19.Total ground coverage (m2)</b>                                                | 25318 m2                                                                                                                                                                         |
| <b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b> | 40%                                                                                                                                                                              |
| <b>21.Estimated cost of the project</b>                                             | 9040000000                                                                                                                                                                       |

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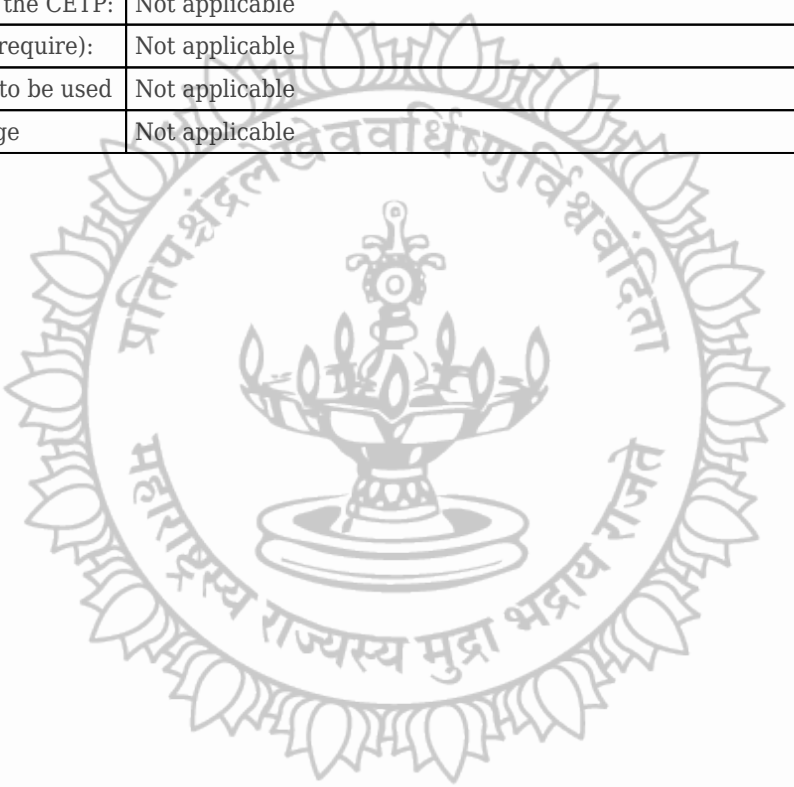
| 22. Production Details            |                                              |                 |                 |                |
|-----------------------------------|----------------------------------------------|-----------------|-----------------|----------------|
| Serial Number                     | Product                                      | Existing (MT/M) | Proposed (MT/M) | Total (MT/M)   |
| 1                                 | Not applicable                               | Not applicable  | Not applicable  | Not applicable |
| 23. Total Water Requirement       |                                              |                 |                 |                |
| Dry season:                       | Source of water                              | MCGM            |                 |                |
|                                   | Fresh water (CMD):                           | 2,059 KLD       |                 |                |
|                                   | Recycled water - Flushing (CMD):             | 1,043 KLD       |                 |                |
|                                   | Recycled water - Gardening (CMD):            | 65 KLD          |                 |                |
|                                   | Swimming pool make up (Cum):                 | 4 KLD           |                 |                |
|                                   | Total Water Requirement (CMD) :              | 3,118 KLD       |                 |                |
|                                   | Fire fighting - Underground water tank(CMD): | As per NBC      |                 |                |
|                                   | Fire fighting - Overhead water tank(CMD):    | As per NBC      |                 |                |
|                                   | Excess treated water                         | 1,770 KLD       |                 |                |
| Wet season:                       | Source of water                              | MCGM + RWH      |                 |                |
|                                   | Fresh water (CMD):                           | 1,802 + 257 KLD |                 |                |
|                                   | Recycled water - Flushing (CMD):             | 1,043 KLD       |                 |                |
|                                   | Recycled water - Gardening (CMD):            | -               |                 |                |
|                                   | Swimming pool make up (Cum):                 | 4 KLD           |                 |                |
|                                   | Total Water Requirement (CMD) :              | 3,118 KLD       |                 |                |
|                                   | Fire fighting - Underground water tank(CMD): | As per NBC      |                 |                |
|                                   | Fire fighting - Overhead water tank(CMD):    | As per NBC      |                 |                |
|                                   | Excess treated water                         | 1,835 KLD       |                 |                |
| Details of Swimming pool (If any) |                                              | Provided        |                 |                |

| 24.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 |
| 25.Rain Water Harvesting (RWH)     | Level of the Ground water table:         |                | 4 - 6 m                                                                          |                |                |                |                |                |                |
|                                    | Size and no of RWH tank(s) and Quantity: |                | RWH Tanks of total 515 KLD Capacity                                              |                |                |                |                |                |                |
|                                    | Location of the RWH tank(s):             |                | Underground                                                                      |                |                |                |                |                |                |
|                                    | Quantity of recharge pits:               |                | NA                                                                               |                |                |                |                |                |                |
|                                    | Size of recharge pits :                  |                | NA                                                                               |                |                |                |                |                |                |
|                                    | Budgetary allocation (Capital cost) :    |                | Rs.118.5 Lacs                                                                    |                |                |                |                |                |                |
|                                    | Budgetary allocation (O & M cost) :      |                | Rs. 12 Lacs/year                                                                 |                |                |                |                |                |                |
|                                    | Details of UGT tanks if any :            |                | UG Tanks will be provided as per NBC norms on ground                             |                |                |                |                |                |                |
| 26.Storm water drainage            | Natural water drainage pattern:          |                | The slope of the site and area is towards north side.                            |                |                |                |                |                |                |
|                                    | Quantity of storm water:                 |                | 1.62 m3/s                                                                        |                |                |                |                |                |                |
|                                    | Size of SWD:                             |                | 450 x 600, 450 x 750, 1200 x 1050, 750 x 750, 600 x 1000, 450 x 1200 mm wide SWD |                |                |                |                |                |                |
| 27.Sewage and Waste water          | Sewage generation in KLD:                |                | 2,908 KLD                                                                        |                |                |                |                |                |                |
|                                    | STP technology:                          |                | MBBR technology                                                                  |                |                |                |                |                |                |
|                                    | Capacity of STP (CMD):                   |                | Total: 3,000 KLD capacity (Rehab: 1,470 KLD & Sale: 1,530 KLD)                   |                |                |                |                |                |                |
|                                    | Location & area of the STP:              |                | Ground                                                                           |                |                |                |                |                |                |
|                                    | Budgetary allocation (Capital cost):     |                | Rs. 600 Lacs                                                                     |                |                |                |                |                |                |
|                                    | Budgetary allocation (O & M cost):       |                | Rs. 120 Lacs/year                                                                |                |                |                |                |                |                |

| 28.Solid waste Management                                        |                                                 |                                                                                                                  |
|------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Waste generation in the Pre Construction and Construction phase: | Waste generation:                               | Construction Debris: : 12,197 m3                                                                                 |
|                                                                  | Disposal of the construction waste debris:      | The construction debris will be disposed as per the Construction and Demolition Waste Management Rules 2016.     |
| Waste generation in the operation Phase:                         | Dry waste:                                      | 4,628 kg/d                                                                                                       |
|                                                                  | Wet waste:                                      | 6,942 kg/d                                                                                                       |
|                                                                  | Hazardous waste:                                | NA                                                                                                               |
|                                                                  | Biomedical waste (If applicable):               | NA                                                                                                               |
|                                                                  | STP Sludge (Dry sludge):                        | 29 m3/d                                                                                                          |
|                                                                  | Others if any:                                  | Household E waste generation                                                                                     |
| Mode of Disposal of waste:                                       | Dry waste:                                      | Dry garbage will be handed over to authorized recyclers.                                                         |
|                                                                  | Wet waste:                                      | Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping. |
|                                                                  | Hazardous waste:                                | NA                                                                                                               |
|                                                                  | Biomedical waste (If applicable):               | NA                                                                                                               |
|                                                                  | STP Sludge (Dry sludge):                        | Sludge use as manure for gardening                                                                               |
|                                                                  | Others if any:                                  | The E-waste shall be handed over to e-waste management vendor authorized by MPCB.                                |
| Area requirement:                                                | Location(s):                                    | Ground                                                                                                           |
|                                                                  | Area for the storage of waste & other material: | 420 m2                                                                                                           |
|                                                                  | Area for machinery:                             | 210 m2                                                                                                           |
| Budgetary allocation (Capital cost and O&M cost):                | Capital cost:                                   | Rs. 210 Lacs                                                                                                     |
|                                                                  | O & M cost:                                     | Rs. 84 Lacs/year                                                                                                 |

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| 29.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 |                                |                                 |                                     |

  
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| 30.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     |

| 31.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         |

| 32.Details of Fuel to be used |                |                |                |                |
|-------------------------------|----------------|----------------|----------------|----------------|
| Serial Number                 | Type of Fuel   | Existing       | Proposed       | Total          |
| 1                             | Not applicable | Not applicable | Not applicable | Not applicable |

|                                           |                |
|-------------------------------------------|----------------|
| 33.Source of Fuel                         | Not applicable |
| 34.Mode of Transportation of fuel to site | Not applicable |

| 35.Energy                 |                                                               |                           |
|---------------------------|---------------------------------------------------------------|---------------------------|
| <b>Power requirement:</b> | Source of power supply :                                      | Reliance Energy Ltd.      |
|                           | During Construction Phase: (Demand Load)                      | 1000 kVA                  |
|                           | DG set as Power back-up during construction phase             | 500 kVA                   |
|                           | During Operation phase (Connected load):                      | 40 MW                     |
|                           | During Operation phase (Demand load):                         | 24 MW                     |
|                           | Transformer:                                                  | -                         |
|                           | DG set as Power back-up during operation phase:               | Total Capacity: 9,000 kVA |
|                           | Fuel used:                                                    | HSD                       |
|                           | Details of high tension line passing through the plot if any: | No                        |

| Energy saving by non-conventional method:                                                                            |  |
|----------------------------------------------------------------------------------------------------------------------|--|
| Solar PV Panels on building Roof Top<br>Solar Street lighting in landscape , common area passages<br>Solar Hot Water |  |

| 36.Detail calculations & % of saving: |                              |          |
|---------------------------------------|------------------------------|----------|
| Serial Number                         | Energy Conservation Measures | Saving % |

|   |                                                                                                                                                              |        |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1 | • Use of Energy Efficient Motors & Pumps • Use of Solar LED Street Lighting • Solar PV Panels on Roof Top • Use of Solar Hot water • Use of Energy Efficient | 21.43% |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|

### 37.Details of pollution control Systems

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

|                                                      |               |                  |
|------------------------------------------------------|---------------|------------------|
| Budgetary allocation<br>(Capital cost and O&M cost): | Capital cost: | Rs. 400 Lacs     |
|                                                      | O & M cost:   | Rs. 30 Lacs/year |

### 38.Environmental Management plan Budgetary Allocation

#### a) Construction phase (with Break-up):

| Serial Number | Attributes                                                 | Parameter                                             | Total Cost per annum (Rs. In Lacs) |
|---------------|------------------------------------------------------------|-------------------------------------------------------|------------------------------------|
| 1             | Water spray for dust suppression                           | -                                                     | 74                                 |
| 2             | Site sanitation and Potable Water Supply to Labour         | -                                                     | 18                                 |
| 3             | Environmental Monitoring                                   | -                                                     | 4                                  |
| 4             | Health check-up & first aid                                | -                                                     | 7                                  |
| 5             | Safety Personal Protective Equipment                       | -                                                     | 12                                 |
| 6             | Safety Nets                                                | -                                                     | 25                                 |
| 7             | Traffic Management                                         | (Sign Boards, Persons at entry exit and Parking area) | 7                                  |
| 8             | Tyre cleaning and Vehicle maintenance                      | -                                                     | 6                                  |
| 9             | Safety Training to Workers (Twice in Year), Safety Officer | -                                                     | 10                                 |
| 10            | Disinfection                                               | -                                                     | 5                                  |

#### b) Operation Phase (with Break-up):

| Serial Number | Component                    | Description                                                                         | Capital cost Rs. In Lacs | Operational and Maintenance cost (Rs. in Lacs/yr) |
|---------------|------------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------|
| 1             | STP (Tertiary)               | Continuous O & M                                                                    | 600                      | 120                                               |
| 2             | Solar System                 | Weekly                                                                              | 400                      | 30                                                |
| 3             | Rainwater harvesting         | During rainy season (cleaning of UG tanks and filtration units before rainy season) | 118.5                    | 12                                                |
| 4             | Solid Waste Composting plant | Continuous O & M Environment Monitoring: Monthly to assess the compost quality      | 210                      | 84                                                |
| 5             | Landscape                    | Daily                                                                               | 123.5                    | 25                                                |

|                                                                            |                          |                                                               |                        |                                                        |                           |                  |                         |
|----------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------|------------------------|--------------------------------------------------------|---------------------------|------------------|-------------------------|
| 6                                                                          | Environmental Monitoring | As per the CPCB guidelines through MoEF Approved laboratories | -                      | 4                                                      |                           |                  |                         |
| 39.Storage of chemicals (inflammable/explosive/hazardous/toxic substances) |                          |                                                               |                        |                                                        |                           |                  |                         |
| Description                                                                | Status                   | Location                                                      | Storage Capacity in MT | Maximum Quantity of Storage at any point of time in MT | Consumption / Month in MT | Source of Supply | Means of transportation |
| Not applicable                                                             | Not applicable           | Not applicable                                                | Not applicable         | Not applicable                                         | Not applicable            | Not applicable   | Not applicable          |
| 40.Any Other Information                                                   |                          |                                                               |                        |                                                        |                           |                  |                         |
| No Information Available                                                   |                          |                                                               |                        |                                                        |                           |                  |                         |

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|  |                                                                                                                |                                                                                                                                                                      |
|--|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>CRZ/ RRZ clearance obtain, if any:</b>                                                                      | NA                                                                                                                                                                   |
|  | <b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b> | Sanjay Gandhi National Park: 1.5 km. (As per ESZ Notification of SGNP Borivali vide letter no. S.O.3645 (A) dt 05.12.2012, the site is not within 100 m ESZ of SGNP) |
|  | <b>Category as per schedule of EIA Notification sheet</b>                                                      | 8 (b)                                                                                                                                                                |
|  | <b>Court cases pending if any</b>                                                                              | No                                                                                                                                                                   |
|  | <b>Other Relevant Informations</b>                                                                             | NA                                                                                                                                                                   |
|  | <b>Have you previously submitted Application online on MOEF Website.</b>                                       | No                                                                                                                                                                   |
|  | <b>Date of online submission</b>                                                                               | -                                                                                                                                                                    |

**3. The proposal has been considered by SEIAA in its 169th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:**

**Specific Conditions:**

|             |                                                                                                                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I</b>    | PP to submit the copy of HRC NoC.                                                                                                                                                                                                                             |
| <b>II</b>   | PP to submit the Civil Aviation NoC, if applicable.                                                                                                                                                                                                           |
| <b>III</b>  | PP to upload the dated Architect certificate addressed to committee regarding building-wise construction done on site as per earlier EC.                                                                                                                      |
| <b>IV</b>   | PP to upload the copy of acknowledgement for plan submitted to local planning authority                                                                                                                                                                       |
| <b>V</b>    | The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting CC. |
| <b>VI</b>   | PP to submit CER plan to Municipal Commissioner and submit the acknowledgement copy to submitted to Member Secretary, SEIAA.                                                                                                                                  |
| <b>VII</b>  | PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF & CC vide F.No.22-34/2018-IA.III dt.04.01.2019.                                                                                                                 |
| <b>VIII</b> | SEIAA decided to grant EC for :FSI:154017.72 m2, Non-FSI: 131085.50 m2 and Total BUA: 285103.22m2 ( IOD no-SRA/Eng/1395/RS/MH/LOI) Date-14.06.2016.                                                                                                           |

**General Conditions:**

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I</b>   | E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.                                                                                                                                                                                                                                                                                                                                       |
| <b>II</b>  | The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.                                                                                                                                                                          |
| <b>III</b> | This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.                                                                         |
| <b>IV</b>  | PP has to abide by the conditions stipulated by SEAC& SEIAA.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>V</b>   | The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area. |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VI</b>     | If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>VII</b>    | All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>VIII</b>   | Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>IX</b>     | The solid waste generated should be properly collected and segregated. dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>X</b>      | Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>XI</b>     | Arrangement shall be made that waste water and storm water do not get mixed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>XII</b>    | All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>XIII</b>   | Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>XIV</b>    | Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>XV</b>     | Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>XVI</b>    | Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>XVII</b>   | Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>XVIII</b>  | The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>XIX</b>    | The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>XX</b>     | Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>XXI</b>    | Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.                                                                                                                                                                                                                                                                                                 |
| <b>XXII</b>   | Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>XXIII</b>  | Ready mixed concrete must be used in building construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>XXIV</b>   | Storm water control and its re-use as per CGWB and BIS standards for various applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>XXV</b>    | Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>XXVI</b>   | The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>XXVII</b>  | The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP. |
| <b>XXVIII</b> | Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>XXIX</b>   | Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>XXX</b>    | Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| XXXI    | Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| XXXII   | Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| XXXIII  | Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy. |
| XXXIV   | Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.                                                                                                                                                                            |
| XXXV    | Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.                                                                                                                                                                                                                                                                                                                                                                                                                |
| XXXVI   | Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| XXXVII  | Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.                                                                                                                                                                                                                                                                                                                                                                              |
| XXXVIII | The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| XXXIX   | Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| XL      | Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| XLI     | Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XLII    | Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.                                                                                                            |
| XLIII   | Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XLIV    | Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| XLV     | A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| XLVI    | In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| XLVII   | A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| XLVIII  | Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.                                                                                                                                                                                                                                                                                                     |
| XLIX    | The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a> .                                                                                                                                                  |
| L       | Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.                                                                                                                                                                                                                                                                                                                                                                                                                     |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LI</b>   | A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.                                                                                                                                                                                                                                                                                                |
| <b>LII</b>  | The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain. |
| <b>LIII</b> | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.                                                                                                                                                                                                                                                                                                           |
| <b>LIV</b>  | The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.                                                                                                                                               |



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4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D- Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Shri. Anil Diggikar (Member Secretary SEIAA)

**Copy to:**

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER MUMBAI
10. MUNICIPAL COMMISSIONER NAVI MUMBAI
11. REGIONAL OFFICE MPCB MUMBAI
12. REGIONAL OFFICE MPCB NAVI MUMBAI
13. REGIONAL OFFICE MIDC ANDHERI
14. REGIONAL OFFICE MIDC KOPER KHAIRANE NAVI MUMBAI
15. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
16. COLLECTOR OFFICE MUMBAI
17. COLLECTOR OFFICE MUMBAI SUB-URBAN



## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,  
Room No. 217, 2nd floor,  
Mantralaya, Annexe,  
Mumbai- 400 032.  
Date: September 17, 2018

To,  
**Girish Chheda; Shivam Developers**  
at Plot bearing CTS No. 163-A (pt) of village Akurli, Kandivali (E), Mumbai.

**Subject:** Environment Clearance for Proposed Expansion and Amendment in Environmental Clearance for Residential Project with SRA Scheme At Land bearing plot CTS No. 163 A(pt) of village Akurli, Kandivali (E), Mumbai, Maharashtra proposed by Shivam Developers

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-II, Maharashtra in its 61st (Part B) (Day-2)st meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 136th meetings.

2. It is noted that the proposal is considered by SEAC-II under screening category 8 (b) as per EIA Notification 2006.

**Brief Information of the project submitted by you is as below :-**

|                                                                                                        |                                                                           |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1.Name of Project                                                                                      | Residential cum Commercial Project with SRA scheme                        |
| 2.Type of institution                                                                                  | Private                                                                   |
| 3.Name of Project Proponent                                                                            | Girish Chheda; Shivam Developers                                          |
| 4.Name of Consultant                                                                                   | Dr. D. A. Patil; Mahabal Enviro Engg. Pvt. Ltd.                           |
| 5.Type of project                                                                                      | SRA scheme                                                                |
| 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 | -                                                                         |
| 8.Location of the project                                                                              | Plot bearing CTS No. 163-A (pt) of village Akurli, Kandivali (E), Mumbai. |
| 9.Taluka                                                                                               | Borivali                                                                  |
| 10.Village                                                                                             | Akurli                                                                    |
| Correspondence Name:                                                                                   | Girish Chheda, SHIVAM DEVELOPERS                                          |
| Room Number:                                                                                           | -                                                                         |
| Floor:                                                                                                 | -                                                                         |
| Building Name:                                                                                         | 218, Prem Baug                                                            |
| Road/Street Name:                                                                                      | Sir Bhalchandra Road                                                      |
| Locality:                                                                                              | Matunga C.R.                                                              |
| City:                                                                                                  | Mumbai 400019                                                             |
| 11.Area of the project                                                                                 | Slum Rehabilitation Authority                                             |

|                                                                                     |                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.IOD/IOA/Concession/Plan Approval Number</b>                                   | Rehab Bldg. A-4 IOD No. SRA/ENG/26339/RS/MHL/AP 29.12.2017. Rehab Bldg. A-5 IOD No. SRA/ENG/2270/RS/MHL/AP 20.06.2013. Sale S-1 Bldg. IOD No. SRA/ENG/3069/RS/MHL/AP 26.05.2017. |
|                                                                                     | <b>IOD/IOA/Concession/Plan Approval Number:</b> REVISED LOI : SRA/ENG/1395/RS/MHL/AP dated 14.06.2016                                                                            |
|                                                                                     | <b>Approved Built-up Area:</b> 275373.96                                                                                                                                         |
| <b>13.Note on the initiated work (If applicable)</b>                                | The construction is going on as per EC received. As of today we have constructed 41409 m2 area.                                                                                  |
| <b>14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)</b>               | REVISED LOI : SRA/ENG/1395/RS/MHL/AP dated 14.06.2016                                                                                                                            |
| <b>15.Total Plot Area (sq. m.)</b>                                                  | 63,918.35 m2                                                                                                                                                                     |
| <b>16.Deductions</b>                                                                | 12159.81m2                                                                                                                                                                       |
| <b>17.Net Plot area</b>                                                             | 51758.54m2                                                                                                                                                                       |
| <b>18 (a).Proposed Built-up Area (FSI &amp; Non-FSI)</b>                            | <b>FSI area (sq. m.):</b> 229862.84 m2                                                                                                                                           |
|                                                                                     | <b>Non FSI area (sq. m.):</b> 190164.19 m2                                                                                                                                       |
|                                                                                     | <b>Total BUA area (sq. m.):</b> 420027.03                                                                                                                                        |
| <b>18 (b).Approved Built up area as per DCR</b>                                     | <b>Approved FSI area (sq. m.):</b> 154017.72 m2                                                                                                                                  |
|                                                                                     | <b>Approved Non FSI area (sq. m.):</b> 121356.24 m2                                                                                                                              |
|                                                                                     | <b>Date of Approval:</b> 14-06-2016                                                                                                                                              |
| <b>19.Total ground coverage (m2)</b>                                                | 25318 m2                                                                                                                                                                         |
| <b>20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)</b> | 39.61 %                                                                                                                                                                          |
| <b>21.Estimated cost of the project</b>                                             | 9040000000                                                                                                                                                                       |

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| 22.Production Details             |                                              |                 |                 |                |
|-----------------------------------|----------------------------------------------|-----------------|-----------------|----------------|
| Serial Number                     | Product                                      | Existing (MT/M) | Proposed (MT/M) | Total (MT/M)   |
| 1                                 | Not applicable                               | Not applicable  | Not applicable  | Not applicable |
| 23.Total Water Requirement        |                                              |                 |                 |                |
| Dry season:                       | Source of water                              | MIDC            |                 |                |
|                                   | Fresh water (CMD):                           | 2070 KLD        |                 |                |
|                                   | Recycled water - Flushing (CMD):             | 1044 KLD        |                 |                |
|                                   | Recycled water - Gardening (CMD):            | 65 KLD          |                 |                |
|                                   | Swimming pool make up (Cum):                 | -               |                 |                |
|                                   | Total Water Requirement (CMD) :              | 3114 KLD        |                 |                |
|                                   | Fire fighting - Underground water tank(CMD): | As per NBC      |                 |                |
|                                   | Fire fighting - Overhead water tank(CMD):    | As per NBC      |                 |                |
|                                   | Excess treated water                         | 1770 KLD        |                 |                |
| Wet season:                       | Source of water                              | MIDC            |                 |                |
|                                   | Fresh water (CMD):                           | 1813 KLD        |                 |                |
|                                   | Recycled water - Flushing (CMD):             | 1044 KLD        |                 |                |
|                                   | Recycled water - Gardening (CMD):            | 0 KLD           |                 |                |
|                                   | Swimming pool make up (Cum):                 | -               |                 |                |
|                                   | Total Water Requirement (CMD) :              | 3114 KLD        |                 |                |
|                                   | Fire fighting - Underground water tank(CMD): | As per NBC      |                 |                |
|                                   | Fire fighting - Overhead water tank(CMD):    | As per NBC      |                 |                |
|                                   | Excess treated water                         | 1835 KLD        |                 |                |
| Details of Swimming pool (If any) | -                                            |                 |                 |                |

## 24.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 |

|                                       |                                                 |                                                      |
|---------------------------------------|-------------------------------------------------|------------------------------------------------------|
| <b>25.Rain Water Harvesting (RWH)</b> | <b>Level of the Ground water table:</b>         | 4 to 6 m                                             |
|                                       | <b>Size and no of RWH tank(s) and Quantity:</b> | RWH Tanks of total 515 KLD Capacity                  |
|                                       | <b>Location of the RWH tank(s):</b>             | Ground                                               |
|                                       | <b>Quantity of recharge pits:</b>               | Nil                                                  |
|                                       | <b>Size of recharge pits :</b>                  | -                                                    |
|                                       | <b>Budgetary allocation (Capital cost) :</b>    | Rs.118.5 Lacs                                        |
|                                       | <b>Budgetary allocation (O &amp; M cost) :</b>  | Rs. 12 Lacs/year                                     |
|                                       | <b>Details of UGT tanks if any :</b>            | UG Tanks will be provided as per NBC norms on ground |

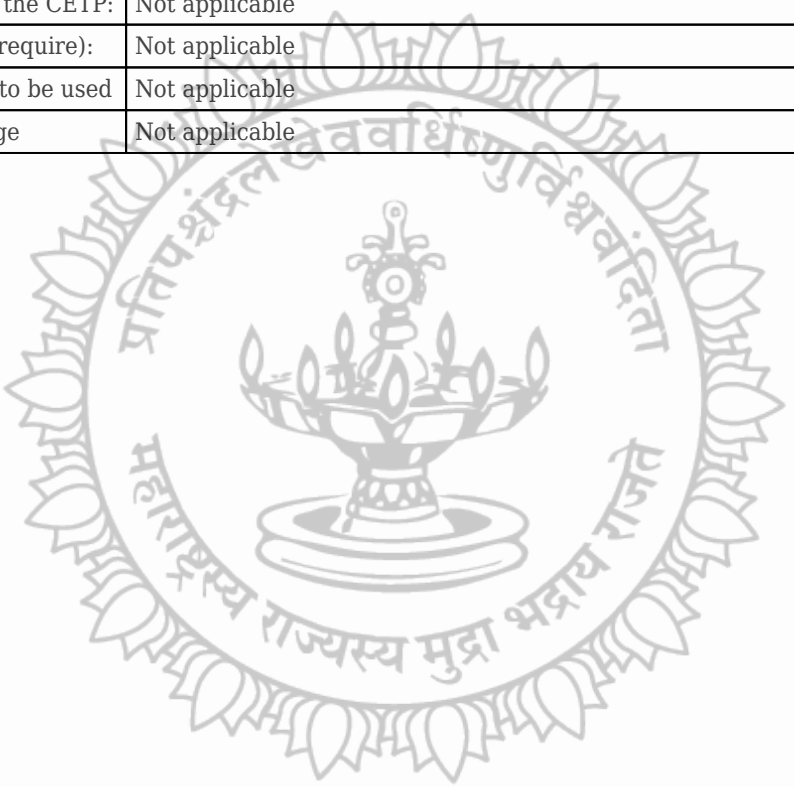
|                                |                                        |                                                       |
|--------------------------------|----------------------------------------|-------------------------------------------------------|
| <b>26.Storm water drainage</b> | <b>Natural water drainage pattern:</b> | The slope of the site and area is towards north side. |
|                                | <b>Quantity of storm water:</b>        | 1.65 m3/sec                                           |
|                                | <b>Size of SWD:</b>                    | 450 mm to 600 mm wide SWD                             |

|                                  |                                               |                   |
|----------------------------------|-----------------------------------------------|-------------------|
| <b>27.Sewage and Waste water</b> | <b>Sewage generation in KLD:</b>              | 2908 KLD          |
|                                  | <b>STP technology:</b>                        | MBBR              |
|                                  | <b>Capacity of STP (CMD):</b>                 | 3000 KLD          |
|                                  | <b>Location &amp; area of the STP:</b>        | Ground            |
|                                  | <b>Budgetary allocation (Capital cost):</b>   | Rs. 600 Lacs      |
|                                  | <b>Budgetary allocation (O &amp; M cost):</b> | Rs. 120 Lacs/year |

| 28.Solid waste Management                                        |                                                 |                                                                                                                  |
|------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Waste generation in the Pre Construction and Construction phase: | Waste generation:                               | Construction Debris: : 12197 m3                                                                                  |
|                                                                  | Disposal of the construction waste debris:      | The construction debris will be disposed as per the Construction and Demolition Waste Management Rules 2016.     |
| Waste generation in the operation Phase:                         | Dry waste:                                      | 4628 Kg/day                                                                                                      |
|                                                                  | Wet waste:                                      | 6942 Kg/day                                                                                                      |
|                                                                  | Hazardous waste:                                | Household E waste generation                                                                                     |
|                                                                  | Biomedical waste (If applicable):               | NA                                                                                                               |
|                                                                  | STP Sludge (Dry sludge):                        | 654 kg/day                                                                                                       |
|                                                                  | Others if any:                                  | Household E waste generation                                                                                     |
| Mode of Disposal of waste:                                       | Dry waste:                                      | Dry garbage will be segregated & disposed off to recyclers.                                                      |
|                                                                  | Wet waste:                                      | Wet garbage will be composted using Mechanical Composting Technology and used as organic manure for landscaping. |
|                                                                  | Hazardous waste:                                | NA                                                                                                               |
|                                                                  | Biomedical waste (If applicable):               | NA                                                                                                               |
|                                                                  | STP Sludge (Dry sludge):                        | Sludge use as manure for gardening                                                                               |
|                                                                  | Others if any:                                  | The E-waste shall be handed over to e-waste management vendor authorized by MPCB.                                |
| Area requirement:                                                | Location(s):                                    | Ground                                                                                                           |
|                                                                  | Area for the storage of waste & other material: | 420 m2                                                                                                           |
|                                                                  | Area for machinery:                             | 210 m2                                                                                                           |
| Budgetary allocation (Capital cost and O&M cost):                | Capital cost:                                   | Rs. 210 Lacs                                                                                                     |
|                                                                  | O & M cost:                                     | Rs. 84 Lacs/year                                                                                                 |

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| 29.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 |                                |                                 |                                     |


  
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| 30.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     |

| 31.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         |

| 32.Details of Fuel to be used |                |                |                |                |
|-------------------------------|----------------|----------------|----------------|----------------|
| Serial Number                 | Type of Fuel   | Existing       | Proposed       | Total          |
| 1                             | Not applicable | Not applicable | Not applicable | Not applicable |

|                                           |                |
|-------------------------------------------|----------------|
| 33.Source of Fuel                         | Not applicable |
| 34.Mode of Transportation of fuel to site | Not applicable |

| 35.Energy                 |                                                               |                          |
|---------------------------|---------------------------------------------------------------|--------------------------|
| <b>Power requirement:</b> | Source of power supply :                                      | Reliance Energy Ltd.     |
|                           | During Construction Phase: (Demand Load)                      | 1000 kVA                 |
|                           | DG set as Power back-up during construction phase             | 500 kVA                  |
|                           | During Operation phase (Connected load):                      | 40 MW                    |
|                           | During Operation phase (Demand load):                         | 24 MW                    |
|                           | Transformer:                                                  | -                        |
|                           | DG set as Power back-up during operation phase:               | Total Capacity: 9000 KVA |
|                           | Fuel used:                                                    | HSD                      |
|                           | Details of high tension line passing through the plot if any: | Nil                      |

| Energy saving by non-conventional method:                                                                            |  |
|----------------------------------------------------------------------------------------------------------------------|--|
| Solar PV Panels on building Roof Top<br>Solar Street lighting in landscape , common area passages<br>Solar Hot Water |  |

| 36.Detail calculations & % of saving: |                              |          |
|---------------------------------------|------------------------------|----------|
| Serial Number                         | Energy Conservation Measures | Saving % |

|   |                                                                                                                                                              |        |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1 | • Use of Energy Efficient Motors & Pumps • Use of Solar LED Street Lighting • Solar PV Panels on Roof Top • Use of Solar Hot water • Use of Energy Efficient | 21.43% |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|

### 37.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. 400 Lacs     |
|                                                   | O & M cost:   | Rs. 30 Lacs/year |

### 38.Environmental Management plan Budgetary Allocation

#### a) Construction phase (with Break-up):

| Serial Number | Attributes | Parameter                                                                | Total Cost per annum (Rs. In Lacs) |
|---------------|------------|--------------------------------------------------------------------------|------------------------------------|
| 1             | -          | Water spray for dust suppression                                         | 74                                 |
| 2             | -          | Site sanitation and Potable Water Supply to Labour                       | 18                                 |
| 3             | -          | Environmental Monitoring                                                 | 4                                  |
| 4             | -          | Health check-up & first aid                                              | 7                                  |
| 5             | -          | Safety Personal Protective Equipment                                     | 12                                 |
| 6             | -          | Safety Nets                                                              | 25                                 |
| 7             | -          | Traffic Management (Sign Boards, Persons at entry exit and Parking area) | 7                                  |
| 8             | -          | Tyre cleaning and Vehicle maintenance                                    | 6                                  |
| 9             | -          | Safety Training to Workers (Twice in Year), Safety Officer               | 10                                 |
| 10            | -          | Disinfection                                                             | 5                                  |
| 11            | -          | Total Cost                                                               | 101                                |

#### b) Operation Phase (with Break-up):

| Serial Number | Component                    | Description | Capital cost Rs. In Lacs | Operational and Maintenance cost (Rs. in Lacs/yr) |
|---------------|------------------------------|-------------|--------------------------|---------------------------------------------------|
| 1             | STP (Tertiary)               | -           | 600                      | 120                                               |
| 2             | Solar System                 | -           | 400                      | 30                                                |
| 3             | Rainwater harvesting         | -           | 118.5                    | 12                                                |
| 4             | Solid Waste Composting plant | -           | 210                      | 84                                                |
| 5             | Landscape                    | -           | 123.5                    | 25                                                |
| 6             | Environmental Monitoring     | -           | -                        | 4                                                 |
| 7             | TOTAL                        | -           | 1452                     | 275                                               |

| 39.Storage of chemicals (inflammable/explosive/hazardous/toxic substances) |                |                |                        |                                                        |                           |                  |                         |
|----------------------------------------------------------------------------|----------------|----------------|------------------------|--------------------------------------------------------|---------------------------|------------------|-------------------------|
| Description                                                                | Status         | Location       | Storage Capacity in MT | Maximum Quantity of Storage at any point of time in MT | Consumption / Month in MT | Source of Supply | Means of transportation |
| Not applicable                                                             | Not applicable | Not applicable | Not applicable         | Not applicable                                         | Not applicable            | Not applicable   | Not applicable          |
| 40.Any Other Information                                                   |                |                |                        |                                                        |                           |                  |                         |
| No Information Available                                                   |                |                |                        |                                                        |                           |                  |                         |



# Government of Maharashtra

|  |                                                                                                                |                                                                  |
|--|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|  | <b>CRZ/ RRZ clearance obtain, if any:</b>                                                                      | NA                                                               |
|  | <b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b> | NA                                                               |
|  | <b>Category as per schedule of EIA Notification sheet</b>                                                      | 8 (b)                                                            |
|  | <b>Court cases pending if any</b>                                                                              | No                                                               |
|  | <b>Other Relevant Informations</b>                                                                             | The ToR is granted by EAC in its 25th meeting held on 29.11.2017 |
|  | <b>Have you previously submitted Application online on MOEF Website.</b>                                       | Yes                                                              |
|  | <b>Date of online submission</b>                                                                               | 06-10-2017                                                       |

**3. The proposal has been considered by SEIAA in its 136th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:**

**Specific Conditions:**

|            |                                                                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I</b>   | PP to submit latest certified six monthly compliance report from Regional Office, MOEF&CC, Nagpur.                                                |
| <b>II</b>  | PP to ensure that STP and MSW facility should be 6 mtr away from nalla&Treated waste water should not be released in to nalla.                    |
| <b>III</b> | PP obtained and submit HRC NOC and submit CFO NOC for proposed expansion.                                                                         |
| <b>IV</b>  | PP to revise area statement including area under PG reservation & other DP reservation in CS.                                                     |
| <b>V</b>   | PP shall maintain evacuation time of 20 minutes.                                                                                                  |
| <b>VI</b>  | SEIAA decided to grant EC for FSI area : 154017.72 m <sup>2</sup> , Non FSI area : 121356.24 m <sup>2</sup> and TBUA = 275373.96 m <sup>2</sup> . |

**General Conditions:**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I</b>    | E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.                                                                                                                                                                                                                                                                                                                                       |
| <b>II</b>   | The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.                                                                                                                                                                          |
| <b>III</b>  | This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.                                                                         |
| <b>IV</b>   | PP has to abide by the conditions stipulated by SEAC& SEIAA.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>V</b>    | The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area. |
| <b>VI</b>   | If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.                                                                                                                                                                                                      |
| <b>VII</b>  | All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.                                                                                                                                                                                                                                                                                  |
| <b>VIII</b> | Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.                                                                                                                                                                               |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IX     | The solid waste generated should be properly collected and segregated. dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| X      | Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.                                                                                                                                                                                                                                                                                                                                                                                            |
| XI     | Arrangement shall be made that waste water and storm water do not get mixed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| XII    | All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| XIII   | Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| XIV    | Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| XV     | Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| XVI    | Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| XVII   | Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| XVIII  | The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| XIX    | The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| XX     | Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| XXI    | Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.                                                                                                                                                                                                                                                                                                 |
| XXII   | Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).                                                                                                                                                                                                                                                                                                                                                                                     |
| XXIII  | Ready mixed concrete must be used in building construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| XXIV   | Storm water control and its re-use as per CGWB and BIS standards for various applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| XXV    | Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XXVI   | The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XXVII  | The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP. |
| XXVIII | Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| XXIX   | Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| XXX    | Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| XXXI   | Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XXXII  | Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| XXXIII  | Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy. |
| XXXIV   | Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.                                                                                                                                                                            |
| XXXV    | Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.                                                                                                                                                                                                                                                                                                                                                                                                                |
| XXXVI   | Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| XXXVII  | Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.                                                                                                                                                                                                                                                                                                                                                                              |
| XXXVIII | The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| XXXIX   | Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| XL      | Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| XLI     | Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XLII    | Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.                                                                                                            |
| XLIII   | Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XLIV    | Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| XLV     | A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| XLVI    | In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| XLVII   | A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| XLVIII  | Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.                                                                                                                                                                                                                                                                                                    |
| XLIX    | The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a> .                                                                                                                                                  |
| L       | Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| LI      | A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.                                                                                                                                                                                                                                                                                                                                                           |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LII</b>  | The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain. |
| <b>LIII</b> | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.                                                                                                                                                                                                                                                                                                           |
| <b>LIV</b>  | The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.                                                                                                                                               |



# Government of Maharashtra

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D- Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Shri. Anil Diggikar (Member Secretary SEIAA)

**Copy to:**

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER MUMBAI
10. MUNICIPAL COMMISSIONER NAVI MUMBAI
11. REGIONAL OFFICE MPCB MUMBAI
12. REGIONAL OFFICE MPCB NAVI MUMBAI
13. REGIONAL OFFICE MIDC ANDHERI
14. REGIONAL OFFICE MIDC KOPER KHAIRANE NAVI MUMBAI
15. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
16. COLLECTOR OFFICE MUMBAI
17. COLLECTOR OFFICE MUMBAI SUB-URBAN

Government of Maharashtra

FileNo.: SEAC- 2010/CR.280/TC.2

Environment department,

Room No. 217, 2<sup>nd</sup> floor,

Mantralaya Annexe,

Mumbai 400 032

Date: 8<sup>th</sup> September, 2010

To,  
M/s. Shivam Developers,  
208, Western Tower,  
Western Express Highway,  
Near Bislery, Andheri (East),  
Mumbai, Maharashtra.

**Subject: Slum Rehabilitation Project at village Akurli, Hanuman Nagar, Kandivali (E) by M/s. Shivam Developers.- Environmental clearance regarding.**

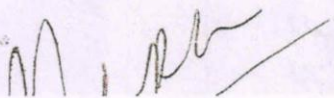
Sir,

This has reference to your communication dated 3<sup>rd</sup> October, 2009 on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee, Maharashtra in its 26<sup>th</sup> meetings and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 25<sup>th</sup> meeting held on 7<sup>th</sup> August, 2010. Project proponent has submitted EIA report.

2. It is noted that the proposal is for grant of Environmental Clearance for Slum Rehabilitation Project at village Akurli, Hanuman Nagar, Kandivali (E) by M/s. Shivam Developers. SEAC considered the project under screening category is 8(b) as per EIA Notification 2006.

**Project information from documents submitted by you & considered by SEAC & SEIAA is summarized as below-**

|                                      |                                                                                                                                                                                                                                 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of the Project</b>           | : Proposed Slum Rehabilitation Project                                                                                                                                                                                          |
| <b>Project Proponent</b>             | : M/s. Shivam Developers.                                                                                                                                                                                                       |
| <b>Location of the project</b>       | : Plot bearing CTS No. : 163 - A (pt) of village Akurli, at Hanuman Nagar, Kandivali (E), Mumbai                                                                                                                                |
| <b>Type of Project</b>               | : Construction Project                                                                                                                                                                                                          |
| <b>Total Plot Area</b>               | : 38637.81 sq. m.                                                                                                                                                                                                               |
| <b>Proposed Total built up area</b>  | : <ul style="list-style-type: none"><li>• Built up area as per FSI: 1,08,487.37 sq. m.</li><li>• Built up area as per Non FSI: 58,959.36 sq. m.</li><li>• Total Built up area: 1,67,446.73 sq. m.</li></ul>                     |
| <b>Estimated cost of the project</b> | : ₹ 388.5 Cr                                                                                                                                                                                                                    |
| <b>No. of Buildings</b>              | : 8 buildings compromises following : <ol style="list-style-type: none"><li>1. Residential Flats: 1377 nos.</li><li>2. Shops: 117 Nos.</li><li>3. R/C: 24 Nos.</li><li>4. Amenities: 51 Nos.</li><li>5. PAP: 166 Nos.</li></ol> |



**Reservation:** Secondary School : 157.92 Sq. m.  
Primary School : 378.90 Sq. m.

**Sale component:** 6 buildings with 1202 nos. of flats & shops with  
BUA : 1845 Sq. m.

**Water Requirement:** Total: 1859 m3/day

1. Fresh water: 1205 m3/day from MCGM
2. Recycled water: 654 m3/day from STP

**Wastewater generated:** 1592 m3/day; Wastewater will be treated in 2 STPs having

**Capacity of STP for Sale building:** 725 m3 /day

**Capacity of STP for Rehab building:** 950 CMD recycled water will be used for flushing, gardening excess 779 m3/day treated water will be drained to sewer line.

**Rain water Harvesting:**

1. Rain water from terrace area will be collected in Rain water Harvesting Tank and will be used for domestic purpose after treatment. 6 RWH tanks of total 345 m3 will be provided.
2. Rainwater from the landscape area and hardscape area will be used to recharge the ground water sources. 12 recharge pits will be provided.
3. Ground Water Authority / Board shall be consulted for finalization of appropriate rainwater harvesting technology.

**Solid Waste Generation:**

- a) Dry garbage: 1922 kg/day
- b) Wet garbage : 4359 kg/day
- c) STP Sludge : 239 kg/day

**Disposal:**

- Biodegradable waste will be treated by organic waste converter
- Non biodegradable waste will be disposed through authorized contractor
- STP Sludge would be used as manure.

**Energy:**

Power Requirements during construction phase: 100 KW and during operation phase: connected load: 22743 KW & Max. Demand: 14820 KW Source: Local Authority  
DG sets of 600 kVA capacity will be provided.

**Energy Conservation:**

1. Use of CFL/ T5 tubes and bulbs will be used whenever possible.
2. Timer for switching on/ off of common area lights for sale building.
3. Alternate circuit for common area light (through timer ) for sale building
4. Use of solar energy for area lighting.
5. Under deck insulation will be used on the roof to reduce heat gain through roof for sale building.
6. Use of building management system (BMS) to have effective control to save energy.
7. PP cement will be used which contain 15% ash.

**Green Belt Development:** area for green belt: 5869.88 sq. m, Nos. of new trees to be planted: 616 trees + 112 existing trees

**Traffic Management:** parking area: 14775.18 sq. m. 4 - wheeler : 801 & 2- wheeler : 97 nos, will be provided.

**Environmental Management Plan:**

Construction phase: ₹ 22.1 Lakhs & during Operation Phase: Total capital cost for EMP shall be ₹ 424.54 Lakhs and O & M for EMP shall be ₹ 108.64 lakhs.

**Budgetary Allocation for EMP:****Construction phase:**

| Sr. No. | Parameter                  | Total cost ( in lakhs) |
|---------|----------------------------|------------------------|
| 1       | Water For Dust Suppression | 0.72                   |
| 2       | Site Sanitation            | 0.50                   |
| 3       | Environmental Monitoring   | 1.08                   |
| 4       | Disinfection               | 1.80                   |
| 5       | Health Check Up            | 18                     |
| 6       | Total Cost                 | 22.1                   |

**Operation Phase:**

| Sr. No. | Parameter                             | Set up cost ( In lakhs)                     | Operational And Maintenance Cost ( In Lakhs/Annum) |
|---------|---------------------------------------|---------------------------------------------|----------------------------------------------------|
| 1       | STP Cost                              | 183                                         | 75.54                                              |
| 2       | Rain Water Harvesting recharging pits | 3.6                                         | 0.18                                               |
| 3       | Rain Water Harvesting Tanks           | 24.15                                       | 1.21                                               |
| 4       | Environmental Monitoring              | Outside MoEF approved agency for monitoring | 20.36                                              |
| 5       | Solar lights                          | 7.5                                         | 0.15                                               |
| 6       | Solar                                 | 134                                         | 0.03                                               |
| 7       | Gardening                             | 32.28                                       | 5.17                                               |
| 8       | Solid waste Management                | 40                                          | 6.0                                                |
|         | Total                                 | 424.54                                      | 108.64                                             |

**Environmental Management Plan shall be implemented as follows:**

| Component                          | During construction phase                                                                                                                                                                                                                                                                                                                                                                                                                                       | During operation phase                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Air &amp; Noise Environment</b> | <ul style="list-style-type: none"> <li>• Use of RMC</li> <li>• Dust control: water sprinkling, cover on trucks</li> <li>• Barricades provided along the periphery of the site.</li> <li>• Ear plugs for laborers.</li> <li>• Vehicle trips : PUC , Night trips, smooth flow.</li> <li>• No noise pollution work during night trips, smooth flow</li> <li>• DG: as per CPCB norms, Proper Maintenance, LSD fuel use, proper and safe storage of fuel.</li> </ul> | <ul style="list-style-type: none"> <li>▪ Use of CFC free refrigerators</li> <li>▪ Use of DG [Standby Backup] as per CPCB norms and LSD fuel shall be used</li> <li>▪ Acoustical Enclosures for DG sets</li> <li>▪ Providing trees on the Site</li> <li>▪ Adequate Parking provision.</li> <li>▪ Smooth traffic flow and regulation : PUC shall be checked</li> </ul> |
| <b>Water</b>                       | <ul style="list-style-type: none"> <li>• Drinking water check up.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"> <li>▪ Rain water harvesting</li> </ul>                                                                                                                                                                                                                                                                                            |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environment</b>                | <ul style="list-style-type: none"> <li>• Provision of temporary toilets</li> <li>• Construction water will be channelised properly before disposal into municipal drain.</li> <li>• Use of tanker water for construction. No burden on municipal water supply.</li> </ul>                                                                                                                                                        | <ul style="list-style-type: none"> <li>▪ Recycling of water through STP</li> <li>▪ Storm water drainage will be properly maintained.</li> </ul>                                                                                                                                                                                                                                                  |
| <b>Land Environment</b>           | <ul style="list-style-type: none"> <li>• Separate storage of Construction material and debris</li> <li>• Usage of Oil trays wherever oil spillage is expected.</li> <li>• Most use of electrically operated machinery instead of diesel</li> <li>• Disposal of debris to authorized contractor.</li> <li>• Segregation of garbage.</li> <li>• Top soil will be stock piled and maintained for green belt development.</li> </ul> | <ul style="list-style-type: none"> <li>▪ Segregation at source for all solid waste streams</li> <li>▪ Proper disposal of waste through well managed Solid waste management team</li> <li>▪ Dry waste will be recycled.</li> <li>▪ Wet garbage shall be composted and will be used as manure.</li> <li>▪ Use of paver blocks instead of fully impermeable pavement to control run off.</li> </ul> |
| <b>Biological Environment</b>     | <ul style="list-style-type: none"> <li>• Plantation of trees for operational phase will start in mid of construction phase</li> <li>• Regulation of vehicular trips and proper maintenance of machinery</li> </ul>                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>• Landscaping, avenue plantation</li> <li>• Plant species selected based on adaptability to geographic conditions and</li> <li>• keeping in view the local species and their benefits to site.</li> <li>• Providing trees on the site</li> </ul>                                                                                                          |
| <b>Socio economic Environment</b> | <ul style="list-style-type: none"> <li>• Adequate drinking water, toilet and bathing facilities.</li> <li>• Personal protective and safety equipments will be provided.</li> <li>• First aid facility.</li> <li>• Regular health check up</li> <li>• Regular pest control will be done.</li> <li>• Educational and awareness programme for safety measures.</li> </ul>                                                           | <ul style="list-style-type: none"> <li>• Environmental awareness programme for surrounding area.</li> <li>• Emergency preparedness plan will be explained with the help of local NGO's</li> </ul>                                                                                                                                                                                                |

**Environmental Monitoring Plan:**

All parameters shall be monitored by MOEF approved lab.

**During Construction Phase:**

| Item                | Parameters                   | Frequency | Location                                         |
|---------------------|------------------------------|-----------|--------------------------------------------------|
| Ambient Air Quality | SPM,RSPM,SO2<br>NOX ,HC & CO | Quarterly | At major construction area. ( total 4 stations ) |
| Noise Level         | Equivalent noise Level dB(A) | Daily     | At major construction area.                      |
| Water Analysis      | Physical,                    | Monthly   | Municipal water supply                           |

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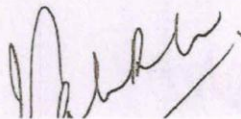
|  |                                    |  |  |
|--|------------------------------------|--|--|
|  | chemical and Biological parameters |  |  |
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**During Operation Phase:**

| Item                | Parameters                                   | Frequency                  | Location                                        |
|---------------------|----------------------------------------------|----------------------------|-------------------------------------------------|
| Ambient Air Quality | SPM,RSPM,SO <sub>2</sub> , NOX,HC & CO       | Quarterly                  | Total 4 Stations around periphery of the site.  |
| Noise Level         | Equivalent noise level                       | Quarterly                  | Near DG sets, Near STP, Near parking area.      |
| Exhaust from DG Set | SPM, SO <sub>2</sub>                         | Quarterly                  | Stack of DG sets.                               |
| Water Analysis      | Physical, chemical and Biological parameters | Weekly during rainy season | Harvested water stored in tank(After treatment) |
| Wastewater Analysis | pH, BOD, COD, TSS TDS, O & G                 | Daily                      | Before & after treatment from STP.              |

3. The proposal has been considered by SEIAA in its 25<sup>th</sup> meetings & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :-

- (i) The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. ULB should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.
- (ii) "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
- (iii) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
- (iv) A First Aid Room will be provided in the project both during construction and operation of the project.
- (v) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc.
- (vi) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
- (vii) Arrangement shall be made that waste water and storm water do not get mixed.
- (viii) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- (ix) Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.



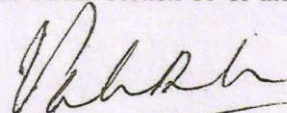
- (x) Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xi) Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- (xii) Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- (xiii) Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.
- (xiv) Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.
- (xv) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.
- (xvi) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.
- (xvii) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- (xviii) Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.
- (xix) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).
- (xx) Ready mixed concrete must be used in building construction.
- (xxi) The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of fire fighting equipments etc. as per National Building Code including measures from lighting.
- (xxii) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (xxiii) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xxiv) The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.
- (xxv) The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Treatment of 100% gray water by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the Maharashtra Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.

- (xxvi) Project proponent shall ensure completion of STP, MSW disposal facility prior to occupation of the buildings and should obtain completion certification for these systems/aspects from MPCB.
- (xxvii) Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.
- (xxviii) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- (xxix) Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.
- (xxx) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- (xxxi) The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material
- (xxxii) Use of glass may be reduced up to 40% to reduce the electricity consumption and load on airconditioning. If necessary, use high quality double glass with special reflective coating in windows.
- (xxxiii) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement
- (xxxiv) Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non conventional energy source as source of energy.
- (xxxv) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.
- (xxxvi) Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- (xxxvii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- (xxxviii) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement
- (xxxix) The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation
- (xl) Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.
- (xli) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.
- (xlii) Six monthly monitoring reports should be submitted to the Department and MPCB.



- (xliii) A complete set of all the documents submitted to Department should be forwarded to the MPCB
  - (xliv) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.
  - (xlv) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
  - (xlvi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
  - (xlvii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.
  - (xlviii) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://envis.maharashtra.gov.in>.
  - (xlix) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1<sup>st</sup> June & 1<sup>st</sup> December of each calendar year.
    - (i) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
    - (ii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
    - (iii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
    - (lii) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
    - (liv) The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.
4. Project proponent should submit exactly same documents for approval of building plans to the concern authority as per the documents submitted to the SEIAA for prior Environmental Clearance

5. Project proponent shall not make any change in Layout Plan/ Master Plan submitted to the Authority without its prior permission and shall submit approved layout plan to Department before commencement of construction work.
6. In case of submission of false document and non compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environmental Clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.
7. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
8. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years.
9. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
10. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution ) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling ) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
11. Any appeal against this environmental clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30days as prescribed under Section 11 of the National Environmental Appellate Act, 1997.

  
(Valsa R Nair Singh)  
Secretary, Environment  
department & MS, SEIAA

**Copy to:**

1. Shri. Ashok Basak, IAS (Retd.), Chairman, SEIAA, 502, Charleville, 'A' Road, Church gate, Mumbai- 400 020, Maharashtra.
2. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEAC, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerla.
3. Additional Secretary, MOEF, 'Paryavaran Bhawan' CGO Complex, Lodhi Road, New Delhi - 110510
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.

5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Mumbai.
7. Collector, Mumbai.
8. Commissioner, Brihan Mumbai Municipal Corporation.
9. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
10. Director (TC-1), Dy. Secretary (TC-2), Scientist-1, Environment Department.
11. Select file (TC-3).