

Conditions mentioned in respect of Solar Heating System

| Project            | Environmental Dept conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pollution Control Board conditions (CFE)                                                            | Bank Guarantee                                                                                                                                                                                                                     |
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| Gulmohar Residency | <p><b><u>Clause V: Energy Conservation measures:</u></b></p> <p>i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the states which have notified their own ECBC, shall comply with the state ECBC.</p> <p>ii. outdoor common area lighting shall be LED. Proposed energy saving measures would be save about 15% of power.</p> <p>iii. Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid systems or fully solar system for a portion of the apartments should be provided.</p> <p>iv. 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-airconditioned spaces by use of appropriate thermal insulation material to fulfill requirement.</p> <p>v. Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, high quality double glass with special reflective coating in window is to be used.</p> | <p>The proponent shall explore to utilize solar power atleast 4% of the total electricity load.</p> | <p>The Commissioner, GHMC shall be entitled to claim amounts at any time if the party fails to comply the for providing Solar Water Heating system and Solar Lighting system in the building and in the site outdoor lighting.</p> |

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| <p>vi. Concept of passive solar design that minimize energy consumption in building by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc., shall be incorporated in the building design. Wall, window and roof u-values shall be as per Energy Conservation Building Code (ECBC) specifications.</p> <p>vii. Energy conservation measures like installation of CFLs/LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.</p> <p>viii. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Seperate electric metre shall be installed for solar power. Solar water heating shall be provided to meet at least 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws requirement, which ever is higher.</p> |  |  |
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