Policy on installation of Solar Power Systems

Electricity is a major fraction of energy consumed by the residential & commercial sector. Use of renewable system to cater a part of energy demand in residential & commercial sector can substantially reduce fossil fuel consumption and green house gas emission.

Public representatives have also requested to have solar power facilities at MCGM Hospitals, Schools, Offices etc. as green energy initiatives considering its energy savings potential.

The Ministry of New and Renewable Energy (MNRE) is also implementing various programmes to promote installation of renewable energy projects/systems in various cities and rural areas of India.

In view of above facts and considering the energy savings potential of PV solar energy installations it will be appropriate to make use of PV solar power installations wherever possible in MCGM Hospitals, Schools, Offices etc.

The tentative guidelines for the installation of PV solar power systems shall be as below:

Considering the maintenance issues involved in the Off-Grid PV solar system i.e.: maintenance of batteries and also recurring cost incurred on the same throughout its life span; it will be appropriate to choose Grid connected Roof Top Solar PV system with net metering in every possible case.

I) For Existing Building (Retrofit Construction):

The owner of the building shall first check the availability of free roof top areas/glass facade for installations of Grid connected Roof Top Solar PV system (excluding over head tanks, lift rooms etc).

If the free area available at roof top/glass facade is capable of generating renewable energy so as to cater minimum of 25% of connected electrical load of the building; Grid connected Roof Top Solar PV system shall be installed suitably. However, the headroom below the solar devices (height between finish surface of terrace and bottom of solar panel system) shall not exceed 1.80 Mtr and shall not exceed the building height at the highest point.

The engineer in charge of concerned MCGM building shall check the load bearing capacity/structural stability of the structure/glass facade for bearing additional load of Grid connected Solar PV system.

II) For New Building (New Construction):

While designing structure/top slab/glass facade of new MCGM Hospitals, Schools, Offices etc. due care shall be taken by concern department responsible for construction of municipal buildings so that sufficient free top slab/glass facade areas for installations of Grid connected

Solar PV system are available to cater minimum of 25% of expected electrical load of the building. However, the headroom below the solar devices (height between finish surface of terrace and bottom of solar panel system) shall not exceed 1.80 Mtr and shall not exceed the building height at the highest point.

The load bearing capacity of the slab of proposed new building/structure/glass facade shall also be designed in such a way that it shall be capable of bearing additional load of Grid connected Solar PV system.

III) For Open Spaces:

In case of open spaces, there shall be sufficient free areas available for installations of Grid connected Solar PV system to cater minimum of 25% of connected/expected electrical load of the nearby building.

However, suitable structure shall be provided for installation of Solar PV system and the load bearing capacity of the said structure shall be such that it shall be capable of bearing load of Solar PV system safely.

IV) Common points for all of the above three criteria i.e.: Existing Building (Retrofit Construction), New Building (New Construction) and open spaces:

1) The approval for installation of Solar PV system shall be obtained from the concerned E.E.(BP).
2) In case of glass facade, NOC from MA & CFO shall be obtained before installing solar power system on it.
3) Possibility of carrying out the installation of Grid connected Roof Top Solar PV system from the implementing companies empanelled by the nodal agency of MNRE i.e: Solar Energy Corporation of India (SECI)/Maharashtra Energy Development Agency (MEDA) shall first be explored. As per MEDA circular u/no. संकीर्ण-२०१८/प्र.क.७२७/नवि-२०, दिनांक.: १४/११/२०१८; the proposal may be got verified from the MEDA.
4) In case, empanelled implementing company of nodal agency MNRE i.e: SECI/MEDA is not available; Grid connected Roof Top Solar PV system shall be got installed by inviting the tenders from firm dealing in line; following the due MCGM procedure.
5) The CEA (Central Electricity Authority) "Measures relating to safety and electric supply, Regulations 2010", The CEA (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations 2013; Maharashtra Electricity Regulatory Commission (Net metering for rooftop solar photo voltaic systems) Regulations 2015, The Maharashtra Electricity Regulatory Commission (State Code Grid) Regulations 2016, or as may be specified from time to time shall be followed scrupulously.

E.E.(M&E)P&D I/c 3/8/19

Ch.E.(M&E) I/c 3/8/19

D.M.C.(E)

A.M.C.(P) 3/8/2019

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Pronounce a third Party Solar Energy Ombudsman [P.E.A.T.A] - who will give monthly reports on actual progress/status of implementation Policy Rules