

## **GUIDELINES FOR INSTALLATION OF SOLAR SYSTEM**

1. **General Requirements.** Solar systems shall only be procured and installed by vendors approved/authorized by the Private Power Infrastructure Board (PPIB) including work eligibility in Punjab. A complete proposal for the installation of a solar system must be submitted to DHA for scrutiny and approval before installation. The proposal must include:-

- a. Detailed design for the installation of the solar system.
- b. Placement of solar panels on rooftops with height restrictions:-
  - (1) **Houses of 1 Kanal & Above**
    - (a) Upper edge at max up to 10 feet from roof.
    - (b) Lower edge at max up to 5 feet from roof.
  - (2) **Houses of 5–10 Marlas**
    - (a) Upper edge at max up to 12 feet (strictly) from roof.
    - (b) Lower edge varying according to available space.
    - (c) Inverters and solar panels must be of a Tier 1 system.
- b. **Restrictions on Installation Areas.** Mumtee, Machine Room, Overhead Water Tank (OHWT) areas shall not be used for solar panel installation without prior permission from DHA. Site-specific conditions will be evaluated on a case-by-case basis, with the following general guidelines:-
  - (1) Upper edge height: Maximum 1 feet 6 inches from mumtee roof.
  - (2) Lower edge height: Maximum 2 inches from mumtee roof.

- c. **Structural and Safety Compliance.** A vendor-certified report on wind and storm velocity resistance, along with seamless integration of solar panels, must be submitted. Furthermore, the following requirements are mandatory to ensure compliance:-
- (1) Permanent structures (integrated into the grey structure) shall not be permitted for solar system installation.
  - (2) The structure shall be grounded with the roof using stainless steel (SS) anchors only. Waterproofing of the roof shall be ensured to prevent any seepage/leakage.
  - (3) Concrete footings shall be designed and constructed to ensure the strengthening of structural steel columns.
  - (4) AC/DC Earthing Mandatory for all installations.
  - (5) Lightning Arrester: Mandatory for all installations.
- d. **Documents Required:**
- (1) **LESCO NOC/Electricity bill** of property clearly mentioned DG Load.
  - (2) Valid copy of **PPIB** (Private Power and Infrastructure Board) license from the concerned solar company/vendor.
  - (3) Solar panels Structure Stability Certificate against wind velocity from the concerned solar company/vendor (original document):-
    - (a) 100km/h for standard structure.
    - (b) 125-140km/h for elevated/customized structure.
  - (4) Commissioning Certificate of solar system electric / earthing / mechanical seamless integration provided by the concerned solar company/vendor (original document).