

# Appreciation / Award Program for Commercial Buildings in Madhya Pradesh

## I. Introduction

To accelerate energy efficiency in building sector, a state-wise appreciation program has been initiated by Urja Vikas Nigam Limited, for various buildings. The objective of the program is to provide information to consumers on the energy efficiency standards and also to encourage more and more buildings in state to adopt the energy efficiency standards of commercial & residential buildings.

The appreciation program is based on actual energy consumption of the building. This program can help reduction in carbon emission in long run which in turn improve the energy security and environmental resilience. It will also facilitate energy efficient materials and technologies market supporting the “Make in India” initiative. Demonstration of the performance of these buildings in public will increase their rental and brand value, and in turn, encourage more building owners to apply for the recognition.

## II. Eligibility Criteria. Who can apply?

Any building, **within the state boundaries**, which claims to be designed and constructed in such manner which **claims to conserve energy** either through *passive design techniques, HVAC design, building automation systems, or efficient lighting systems*, and have **completed minimum one year of occupancy**, under mentioned categories and subcategories can apply.

## III. Documentation to be submitted

- a. Electricity Bill (consecutive 12 months)
- b. Document stating built-up area (Building Permission copy)
- c. CAD drawings (for new buildings)
- d. Electricity Bills pre-retrofitting (for retrofitted buildings)

## IV. Screening Criteria

- a. For New Buildings (Building evaluated against the standard case)
- b. For Retrofitted Buildings (Electricity Bills Pre & Post retrofit)

## V. Appreciation

- a. The buildings, which qualify, will get the appreciation as follows:

Table for Building Energy Star Rating Program\_ **Climate Zone: Composite**

Appreciation	EPI(KWh/Sqm/Year)_Commercial More than 50 % air conditioned built up area	EPI(KWh/Sqm/Year)_Commercial Less than 50 % air conditioned built up area
<b>Standard</b>	190-166	80-70
<b>Bronze</b>	165-141	69-60

<b>Silver</b>	140-115	59-50
<b>Gold</b>	114-90	49-40
<b>Platinum</b>	Below 90	Below 40

Table for Building Energy Star Rating Program \_ **Climate Zone: Hot-Dry**

<b>Appreciation</b>	<b>EPI(KWh/Sqm/Year)_ Commercial More than 50 % air conditioned built up area</b>	<b>EPI(KWh/Sqm/Year)_ Commercial Less than 50 % air conditioned built up area</b>
<b>Standard</b>	180-155	75-65
<b>Bronze</b>	154-130	64-55
<b>Silver</b>	129-105	54-45
<b>Gold</b>	104-80	44-35
<b>Platinum</b>	Below 80	Below 35

- b. The building will get a mountable plaque which can be displayed on their buildings
- c. The Architect/ Builder/ Developer will get a letter of appreciation from Urja Vikas Nigam Ltd.

**\*Energy Performance Index (EPI):** of a building has its annual energy consumption in kilowatt-hours per square meter of the building. While calculating the EPI of the building, the area of unconditioned basements shall not be included. EPI can be determined by:

$$EPI = \frac{\text{Annual Energy consum in } kW h}{\text{Total builtup area (excluding unconditioned basements)}}$$