

**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
UNSTARRED QUESTION NO.485  
TO BE ANSWERED ON 22.07.2021**

**MAITREE**

**†485. SHRIMATI RATHVA GITABEN VAJESINGBHAI:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether Market Integration and Transformation Programme for Energy Efficiency (MAITREE) is bringing a positive change in cooling of houses and buildings;**
- (b) if so, the details thereof;**
- (c) whether MAITREE has been proven cost effective and if so, the details thereof;**
- (d) whether it has been proven helpful in reducing energy consumption; and**
- (e) if so, the details thereof?**

**A N S W E R**

**THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY**

**(SHRI R. K. SINGH)**

**(a) & (b) : Energy Efficiency Services Ltd. (EESL) is implementing Market Integration and Transformation Programme for Energy Efficiency (MAITREE) in the areas of building energy efficiency and cooling. In cooling area, EESL is implementing the programs like Super-Efficient Air-Conditioners (SEACs) and Building Energy Efficiency Program (BEEP).**

**EESL has undertaken following activities in the area of cooling:**

**i. Demand aggregation for Air Conditioners (ACs) as a part of implementation of SEAC Program (SEAC): EESL has deployed 19,500 SEACs in Government Buildings, Industries and domestic consumers. The details are as follows:-**

<b>Description</b>	<b>Qty</b>	<b>Billing Amount (INR)</b>
<b>Government Buildings</b>	<b>17,000</b>	<b>96.05 Cr</b>
<b>Institutional/PSUs</b>	<b>1,537</b>	<b>4.36 Cr</b>
<b>Retail Buyers</b>	<b>8,79</b>	<b>2.63 Cr</b>
<b>Private Organizations</b>	<b>84</b>	<b>0.24 Cr</b>
<b>TOTAL</b>	<b>19,500</b>	<b>103.28 Cr</b>

**ii. Development of strategy for Environmentally Safe Appliance Disposal for Air-Conditioners (ACs) and other electronic waste coming out of retrofit.**

**iii. Initiative for Healthy and Energy Efficient Buildings including technology identification, design specifications, and pilot project implementation: The 'Retrofit of Air Conditioning to Improve air quality for Safety and Efficiency' (RAISE) program was launched on 20<sup>th</sup> July 2020. EESL has completed the procurement of technology through competitive bidding.**

**iv. Market development for new technologies: Chiller Energy Efficiency Program including market assessment, feasibility study, business strategy, standard contracts, tools for chiller retrofit feasibility.**

**(c) : The SEAC program of EESL has brought down the cost of the super-efficient AC by about 15-20% compared to the similar product in retail market.**

**(d) & (e) : Bureau of Energy Efficiency (BEE) has been awarding 5 Star labels to those Air Conditioners whose Indian Seasonal Energy Efficiency Ratio (ISEER) is equal and above 4.5 (in case of Inverter Air Conditioners model). The Standards & Labelling Programme of BEE does not certify anything as SEACs since the programme is based on star labels, which means that these models are also registered as 5 star only. As per BEE estimation, the minimum savings from a 1.5 Tonnes rating 5 Star Inverter is around 850 units per year as against current level of 1 Star model of same category. It is reported that out of 88.48 lakhs ACs sold in 2019-20, about 19% were under 5 Star category.**

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