

GOVERNMENT OF INDIA  
MINISTRY OF HEAVY INDUSTRIES  
**RAJYA SABHA**  
**UNSTARRED QUESTION No. 2311**  
ANSWERED ON 09.08.2021

**BATTERY COST IN E-VEHICLES**

**2311. SHRI PRABHAKAR REDDY VEMIREDDY:**

Will the Minister of **Heavy Industries and Public Enterprises** be pleased to state:

- (a) whether it is a fact that the battery cost in electric vehicles is as much as forty per cent;
- (b) the global trend in the price of batteries for electric vehicles;
- (c) the details of research being done in the country on batteries for electric vehicles;
- (d) whether any States are giving incentives for manufacturing electric vehicles or components; and
- (e) if so, the details thereof?

**ANSWER**

THE MINISTER OF STATE FOR HEAVY INDUSTRIES  
(SHRI KRISHAN PAL GURJAR)

**(a) to (c):** Yes, Sir. As per information received from Automotive Research Association of India (ARAI), battery is an important part of electric vehicles and it is estimated that battery price is around 30-40% of the vehicle price. According to International Energy Agency (IEA), the weighted average cost of automotive batteries declined 13% in 2020 from 2019. By 2023, the global average price will be close to \$100/kWh. Further, presently research is done in the country on metal air batteries such as aluminum-air and sodium-ion batteries for electric vehicles.

**(d) & (e):** Sir, thirteen states (Andhra Pradesh, Delhi, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu, Telangana, Uttar Pradesh, Uttarakhand, Meghalaya, Gujarat, West Bengal) have approved/notified dedicated electric vehicles (EV) policies to promote adoption of electric vehicles.

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