

BIS formulates performance standards for Electric Vehicle Batteries

Posted On: 24 JUN 2022 5:55PM by PIB Delhi

- **BIS in the process of publishing two more standard related to batteries for various passenger and goods carrying vehicles.**

Bureau of Indian Standard, National Standard Body of India, has published standards for Test Specifications for Lithium-ion Traction Battery Packs and Systems (Performance Testing) for Electrically Propelled Road Vehicles. The standard IS 17855: 2022 for these battery packs and systems is harmonized with ISO 12405-4: 2018.

This standard incorporates the test procedure for basic characteristic of performance, reliability and electrical functionality for the battery packs and system for either high power or high energy application. This standard is formulated considering real life scenarios for an electric vehicle such as vehicle is in parking (battery is not used for extended period of time), battery system is being shipped (stored), operating battery at low and high temperature etc., accordingly various tests are incorporated in this standard.

Safety and performance are two critical aspects of electronic devices. Requirement of Battery system for use as a power source for propulsion of vehicles are significantly different from battery used for consumer electronics or stationary use.

Electric vehicles are vehicles that operate on electric motor and rechargeable batteries. Over the past decade, Electric vehicles have grown in terms of visibility and availability in the market. For safety of consumer, reliability and safety, Energy storage systems become critical part of any EV. Most of the EVs use Lithium-ion batteries because of its high power to weight ratio.

Further, keeping view on safety aspect of batteries for EV, Bureau of Indian Standard is in the process of publishing 2 more standard related to batteries for various passenger and goods carrying vehicles (L, M and N category).