

Evaluation & Adaptation of Lithium Ion Battery Cells for Automotive Application (ISRO & ARAI)

Electrification of mobility is gaining momentum in India and will see increase in volumes in the coming years. Presently, Li ion battery cells, which is most popular for automotive traction battery application, have to be imported as there is no manufacturing technology and facility in India.

ISRO has developed Li ion cell manufacturing technology for space applications. ARAI and ISRO have collaborated to evaluate Li ion battery cells for suitability to automotive traction application. This is one of ARAI's initiatives to work towards Govt. of India's vision and efforts towards electrification of powertrain and Make in India.

The Li ion cells were extensively evaluated in laboratory, under different automotive traction application specific test conditions. After successful laboratory level evaluation, extensive engineering was done for transition from cells to battery pack for an electric 2W vehicle.

The Li ion cell manufacturing technology, suitable for automotive traction application, is now ready for technology transfer and mass manufacturing.

