

# ETN

EMERGING TECHNOLOGY NEWS

# Raising Emobility in Rising India



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# ARAI's CoE gears up for EV assessment as per FAME II



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**A**RAI-Automotive Research Association of India - the premier research and certification institute in the country, has geared itself to support the automotive industry in the development of EVs, their evaluation and certification. Towards this purpose, ARAI has set up a comprehensive state-of-the-art Center of Excellence (CoE) for electric vehicles (2W, 3W, passenger cars, buses, commercial vehicles) and for their components such as traction batteries, motors, controllers, chargers, etc.

ARAI has undertaken the eligibility assessment of EV models from OEMs as per FAME II requirements, and has extended approvals to 15 models.

The GoI approved Faster Adoption and Manufacturing of Electric & Hybrid Vehicles (FAME) India Phase II, with a total outlay of INR10,000 crore over the period of three years, is being implemented with effect from 1 April 2019. This scheme is the extended version of the FAME India Phase 1 which was launched on 1 April 2015, with a total outlay of INR 895 crore. The main objective of the scheme is to encourage and accelerate the adoption of electric and hybrid vehicles by way of offering upfront incentives on their purchase. It also promotes the setting up of necessary charging infrastructure for electric vehicles. Together this will help in addressing the issue of environmental pollution and fuel security.

## Salient features of FAME II

- Emphasis on electrification of public transportation which includes shared transport
- Demand incentives on operational expenditure model for electric buses will be delivered through State/City Transport Corporation (STUs)
- In the 3W and 4W segments, incentives will be applicable mainly to vehicles used for public transport or registered for commercial purposes
- In the e-2W segment, the focus will be on private vehicles
- Plan to support 10 lakh e-2W, 5 lakh e-3W, 55000 e-4W and 7000 e-buses
- To encourage advanced technologies, the benefits of incentives will be extended to only those vehicles that are fitted with advanced batteries like a Li-ion and other new battery technologies. The quantum of incentive is proportional to the energy content of the battery employed in the vehicle
- Proposal to increase charging infrastructure, whereby about 2700 charging stations will be established in metros, in other one-million plus cities, smart cities and cities of hilly states across the country. The aim is to ensure the availability of at least one charging station in a grid of 3 km x 3 km
- Establishment of charging stations is also proposed on major highways connecting major city clusters
- On such highways, charging stations will be established on both sides of the road at intervals of about 25 km each

*This regular column by Automotive Research Association of India (ARAI) will feature updates in the field of Energy Storage and Emobility. ARAI is an automotive R&D organization set up by the Automotive Industry with the GoI, and is an autonomous body affiliated to the Ministry of Heavy Industries and Public Enterprises. It has been playing crucial roles assuring safe, less polluting, more efficient and reliable vehicles.*