



Government of India
Ministry of Science and Technology
(Department of Science and Technology)

Technology Platform for Electric Mobility (TPEM)

1st Call for Proposals

The Technology Platform for Electric Mobility (TPEM) is a joint initiative of the Department of Heavy Industry (DHI) and the Department of Science and Technology (DST) to support R&D Consortia Projects involving multiple companies and academic institutions. The Consortia projects will be eligible for grant-in-aid funding up to 60% and the rest will be contributed by industry partners in terms of resources, manpower, equipment and facilities.

The project proposals are invited in the following areas.

TPEM Program 1. Lithium Battery

- Project 1.1. Two Wheeler Traction Battery [48/ 72V, max-2.5 kwh],
- Project 1.2. Three Wheeler Traction Battery [48/ 72V, max-6 kwh],
- Project 1.3. Four Wheeler Traction Battery [72V, max-16/24 kwh],
- Project 1.4. Bus Traction Battery [750 V, max-250 kwh] for 18.5 tonne, 12 meter bus.

TPEM Program 2. Charging Infrastructure

- Project 2.1. AC Chargers with Net Metering facility
- Project 2.2. Technology Pilot for DC Charging technologies for low voltage vehicles (2W, 3W and small cars)
- Project 2.3. Technology pilots for EV Bus Charging at Bus Depots for Urban Transit Fleets.
- Project 2.4. Technology pilot for communication channel and protocol between the vehicles, charging stations and control station.

TPEM Program 3. Driving Cycle and Traffic Pattern

- Project 3.1. Segmented studies on the Urban Driving Cycle and Traffic Pattern for different categories of vehicles using telematics equipment and traffic surveys, for 1 year, covering winter, summer and monsoon.

TPEM Program 4. Motors and Drives

- Project 4.1. E-Two Wheeler (e-2W) Reference Vehicle.
- Project 4.2. E-Three Wheeler (e-3W) Reference Vehicle.

TPEM Program 5. Lightweighting of xEVs

- Project 5.1. Lightweight solutions for optimally designed xEV, encompassing vehicle body structure, chassis and sub-systems, that will meet customer requirements and regulations.

Submission of proposals

The proposals in DST/TPEM specified format (www.dst.gov.in) may be submitted (1 hard copy + soft copy of proposal in PDF) between **1 December 2016** and **15 January 2017** to: **TDT Division**, Department of Science and Technology, Technology Bhawan, New Mehrauli Road, New Delhi 110 016.

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