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 4.2. 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](http://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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