

GOVERNMENT OF INDIA  
MINISTRY OF HEAVY INDUSTRIES AND PUBLIC ENTERPRISES  
DEPARTMENT OF HEAVY INDUSTRY

**LOK SABHA**  
**UNSTARRED QUESTION No. 1411**  
**TO BE ANSWERED ON 12.02.2019**

**National Electric Mobility Mission Plan**

1411. KUMARI SHOBHA KARANDLAJE:

Will the Minister of HEAVY INDUSTRIES AND PUBLIC ENTERPRISES be pleased to state:

- (a) whether the National Electric Mobility Mission Plan 2020 was unveiled in 2013 as part of the Fame India Scheme and if so, the details thereof;
- (b) whether the Government has amended the Scheme to reduce pollution from Road Transport and cover all vehicle segments and if so, the details thereof alongwith the amount allocated and utilized in this regard;
- (c) the details of incentives provided to manufacturers and the number of electric/ hybrid vehicles benefitted as on 31 December, 2018;
- (d) whether the Government has launched the second phase of the Fame India Scheme recently and if so, the details thereof;
- (e) the details of Cities selected for pilot project of Multi-Modal Electric Public Transport; and
- (f) whether the Government has approved the pilot project of charging infrastructure and project of technological development since 2017-18 and if so, the details thereof?

**ANSWER**

**THE MINISTER OF STATE FOR HEAVY INDUSTRIES & PUBLIC ENTERPRISES**  
**(SHRI BABUL SUPRIYO)**

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(a) to (c): The National Electric Mobility Mission Plan (NEMMP) 2020 is a National Mission document providing the vision and the roadmap for the faster adoption of electric vehicles and their manufacturing in the country. This plan has been designed to enhance national fuel security, to provide affordable and environmentally friendly transportation and to enable the Indian automotive industry to achieve global manufacturing leadership. Under NEMMP 2020, there is an ambitious target to achieve 6-7 million sales of hybrid and electric vehicles by the year 2020.

As part of the NEMMP 2020, Department of Heavy Industry formulated a Scheme namely Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles India (FAME-India) Scheme in March, 2015 to promote electric & hybrid vehicle (xEVs) in the country. At present, the Phase-1 of the scheme is under implementation, which was originally for a period of 2 years till 31<sup>st</sup> March 2017, but has been extended further till 31<sup>st</sup> March 2019 or till Notification of FAME-II, whichever is earlier. The Scheme has four focus areas namely Demand Creation, Pilot Project, Technology Development/ R&D and Charging Infrastructure.

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The Scheme has been amended from time to time as per notification detailed below: -

- Vide Notification S.O. 2696(E) dated 30/08/2015, the scheme for Electric and Hybrid 2W and 3W of all types was made applicable for their sale anywhere in India.
- The Scheme for 3W (Category L5) was further extended for Battery Electric Vehicle (BEV) variant vide Notification S.O. 4175(E) dated 23/12/2016.
- Electric 3W (with maximum speed not exceeding 25km/hr.) has also been included for availing incentive under the scheme Vide Notification S.O. 2199(E) dated 04/07/2017.
- L5 category has been included in the retro fitment category vide Notification S.O. 2198(E) dated 12/07/2017.
- Fully Electric Bus has also been included for demand incentive under the Scheme Vide Notification S.O. 3012(E) dated 12/09/2017.
- Vide Notification S.O. 4994(E) dated 27/09/2018, the benefits of incentive available to Conventional Battery Vehicles are discontinued w.e.f. 1<sup>st</sup> October, 2018 to promote Advanced Battery Vehicles.

The details of the budgetary allocation to implement the FAME-India Scheme and the fund utilization are summarized hereunder: -

S.N.	Financial Year	Budget Allocation	Fund Utilization
1.	2015-16	Rs. 75 Crore	Rs. 75 Crore (approx.)
2.	2016-17	Rs. 144 Crore	Rs. 144 Crore (approx.)
3.	2017-18	Rs. 165 Crore	Rs. 165 Crore (approx.)
4.	2018-19	Rs. 145 Crore(revised)	Rs.73.63 Crore (approx.) till 31.12. 2018.

Under Demand Creation focus area of the scheme, the purchaser of electric/hybrid vehicles is given an upfront reduction in purchase price by the dealer at the time of purchase of xEVs. The details of the demand incentives available for purchase of xEVs is provided at Annexure 13 of the Gazette Notification of the Scheme and as amended from time to time, which is available in the website of Department of Heavy Industry ([www.dhi.nic.in](http://www.dhi.nic.in)).

Since inception of the scheme & till 31<sup>st</sup> December 2018, the Government has given financial support (demand incentive) to about 2,61,507 electric/hybrid vehicles. In addition to above, 585 electric buses have also been sanctioned to various cities/ states under this scheme.

(d): No, Madam.

(e): The details of the cities selected and being funded for pilot project of Multi-Modal Electric Public Transport is at Annexure-I.

(f): Yes, Madam. The list of pilot project of charging infrastructure and project of technology development sanctioned under Phase-I of FAME-India Scheme is at Annexure-II.

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**Details of the cities selected and being funded for pilot project of  
Multi-Modal Electric Public Transport**

S.No	City	E-Vehicles Allotted		
		4Wheelers	3Wheelers	Buses
1	Bengaluru	100	500	80
2	Jaipur			40
3	Mumbai			80
4	Lucknow			40
5	Hyderabad			40
6	Indore	50	200	40
7	Kolkata	200		80
8	Jammu			40
9	Guwahati			15
<b>Total</b>		<b>350</b>	<b>700</b>	<b>455</b>

*Concluded.*

**Projects approved by DHI under FAME India Scheme  
(Pilot Projects, Charging infrastructure and Technology Development)**

S.N.	Name of the Project	Name of the Operating Agency
1	Public Fast Charging Infrastructure Network for Electric Vehicles at Bangalore	M/s Mahindra Reva Electric Vehicles Pvt. Ltd. in collaboration with Lithium Urban Technologies Pvt. Ltd.
2	Establishment of Testing Infrastructure for Certification of Testing of Electric & Hybrid Vehicles at ARAI Pune	Automotive Research Association of India (ARAI)
3	Proposal for specifications and Finalizing Draft Standards of xEV Charging Stations, ARAI, Pune	Automotive Research Association of India (ARAI)
4	Proposal for Charging Infrastructure Management System, IIT Madras	IIT, Madras
5	Proposal for 25 Hybrid Buses for Bandra Kurla Complex, MMRDA Mumbai	Mumbai Metropolitan Region Development Authority(MMRDA)
6	Proposal for 25 Electric Buses by HP Government	Himachal Road Transport Corporation (HRTC)
7	Proposal for 50 Nos. Maxi Cabs for local transport by HP Government	Himachal Pradesh City Transport and Bus Stand Management and Development Authority (HPCT&BSM&DA)
8	Proposal for putting up of Solar Based Charging Infrastructure for EVs in NCR	Rajasthan Electronics & Instruments Limited (REIL), Jaipur
9	Proposal for putting up of Solar Based Charging Infrastructure for EVs in the premises of Udyog Bhawan	Bharat Heavy Electricals Limited(BHEL)
10	Technical Development Project for advanced Gen-IV Lead Acid Battery & Gen-Nickel-Zinc Battery for EVs	NonFerrous Materials Technology Development Centre (NFTDC), Hyderabad
11	Proposal for 2 Electric Vehicles (5-7 Seater) for Land Port Authority of India at Agartala	Land Ports Authority of India(LPAI)
12	Proposal for Centre of Advanced Research in Electrified Transportation (CARET) at AMU	Aligarh Muslim University(AMU)
13	Project for Centre for Battery Engineering	IIT Madras
14	Proposal received under IMPRINT initiative of MoHRD for Hierarchical Nanostructure Carbon Materials Derived from Candle Soot and Graphine for High Rate & High Performance Electrodes for Automotive Batteries and Supercapacitors	IIT Kanpur
15	Financial Support for UAY Project concerning Automobile Sector-Development of Light Weight REEV with Renewable Energy Based Fuel Cell Range Extender	IIT Madras
16	Proposal of Setting-up 200 Charging Stations by REIL, Jaipur	Rajasthan Electronics & Instruments Limited (REIL), Jaipur
17	Design & Development of AC-DC Combined Public Charging Stations by ARAI	Automotive Research Association of India (ARAI)
18	Technology Pilot for DC Charging for EV Bus	<u>Principal Investigator</u> Panva Engineering Pvt. Ltd., Nasik, Maharashtra <u>Co- Principal Investigator</u>

		K.K.Wagh Institute of Engineering Education and Research, Nasik Maharashtra
19	Development and Prototyping of ICT enabled Smart Charging Network Components	<u>Principal Investigator</u> IIT Delhi <u>Co- Principal Investigator</u> Thapar University, Amrita Vishwa Vidyapeetham, Lithium Urban Technologies <u>Industry Partners</u> Elecsys Technologies Pvt. Ltd., Engie (GDF Suez Energy), LinkwellTelesystems, Yexcube Technologies
20	Development of Indian Urban Driving Cycle for xEV	<u>Principal Investigator</u> IIT Madras [Department of Electrical Engineering /Computer Science & Engineering /Civil Engineering], IISc Bangalore(Department of Civil Engineering) <u>Industry Partners</u> Mahindra Electric; Bosch Limited, Bangalore; Robert Bosch Engineering & Business SolutionsPvt. Ltd., Coimbatore
21	HUB and SPOKE consortium for e-2W and e-3W Electric Drives	<u>Principal Investigator</u> TVS-Lucas Limited;NFTDC, Hyderabad <u>Institutions</u> IIT Guwahati; IIT Jodhpur; IIT BBSR; VIT Chennai; NITTEE, Surathkal <u>Industry Partners</u> Lucas TVS,Chennai;Ampere Vehicles, Coimbatore;Electrotherm; Lohia Auto Industries
22	Switched Reluctance Traction motor and controller for 2W & 3W	<u>Principal Investigator</u> Aditya Auto Products & Engg.(I)Pvt. Ltd. NITK Surathkal <u>Industry Partners</u> Hero Eco; Ampere Vehicles Pvt. Ltd.
23	Synchronous Reluctance Motor Drive for Indian Electric Vehicle applications	<u>Principal Investigator</u> IIT Madras <u>Industry Partners</u> Mahindra Reva Electric Vehicles Ltd., Bengaluru.
24	Procurement of 30 Nos of Electric Buses	Navi Mumbai Municipal Transport (NMMT)
25	Proposal of Solar Grid Hybrid and Grid powered Charging Stations (200 Chargers)	Rajasthan Electronics & Instruments Limited (REIL), Jaipur
26	<b>Proposal for grant-in-aid for test facility infrastructure for EV and Electric Vehicle Supply Equipment (EVSE) performance test/ certification from NATRiP</b>	National Automotive Testing and R&D Infrastructure Project (NATRiP)
27	<b>Setting-up of 270 Solar Based EV Chargers</b>	Bharat Heavy Electricals Limited(BHEL)

*Concluded.*