

GOVERNMENT OF INDIA
MINISTRY OF HEAVY INDUSTRIES & PUBLIC ENTERPRISES
DEPARTMENT OF HEAVY INDUSTRY
LOK SABHA
UNSTARRED QUESTION NO. 390
ANSWERED ON 15.09.2020

NATIONAL ELECTRIC MOBILITY MISSION PLAN 2020

390. DR. SHRIKANT EKNATH SHINDE:
DR. SUJAY RADHAKRISHNA VIKHE PATIL:
SHRI HEMANT SRIRAM PATIL:
SHRI DHAIRYASHEEL SAMBHAJIRAO MANE:
SHRI UNMESH BHAIYYASAHEB PATIL:

Will the Minister of HEAVY INDUSTRIES AND PUBLIC ENTERPRISES भारी उद्योग एवं लोक उद्यम मंत्री 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 August 2020;
- (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 the 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 HEAVY INDUSTRIES & PUBLIC ENTERPRISES
(SHRI PRAKASH JAVADEKAR)

(a) to (d): The National Electric Mobility Mission Plan (NEMMP) 2020 is a National Mission document providing the vision and 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.

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. The Phase-1 of the scheme was available up to 31st March, 2019. The Scheme had four focus areas, namely, Demand Creation, Pilot Project, Technology Development/ R&D and Charging Infrastructure.

Contd....2/-

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 were discontinued w.e.f. 1st October, 2018 to promote Advanced Battery Vehicles.

Based on the outcome and experience gained during Phase-I of FAME India Scheme and after having consultations with all stakeholders, including Industry and Industry Associations, the Government notified Phase-II of FAME India Scheme on 8th March, 2019, which is for a period of three years commencing from 1st April, 2019, with a total budgetary support of Rs. 10,000 crore. This phase will mainly focus on supporting electrification of public & shared transportation and aims to support through demand incentive about 7000 e-Buses, 5 lakh e-3 Wheelers, 55000 e-4 Wheeler Passenger Cars and 10 lakh e-2 Wheelers. In addition, creation of charging infrastructure will also be supported under the Scheme.

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

S.No.	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	Rs. 145 Crore (approx..)
5.	2019-20	Rs. 500 Crore	Rs. 500 Crore (approx.)
6.	2020-21	Rs. 692.94 Crore	Rs. 110.69 Crore (approx.) as on 31 st Aug, 2020

Under Demand Creation, which is the 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.

In the First Phase of the Scheme about 2.8 lakh hybrid and electric vehicles were supported by way of demand incentive amounting to about Rs 359 crore. Further, DHI sanctioned 425 electric and hybrid buses to various cities in the country with total cost of about 280 Crores. The Department of Heavy Industry had sanctioned about 500 Charging Stations/ Infrastructure for Rs. 43 Crore (approx.) under Phase-I of FAME-India Scheme.

Under Phase-II of FAME India Scheme, 27,201 Electric Vehicles have been supported till 10.09.2020 by way of Demand Incentive amounting to about Rs. 95 Cr. Further, 5595 electrical buses have been sanctioned to various State/ City Transport Undertakings under Phase-II of the Scheme. This involves Government incentive of around Rs. 2800 Cr.

Department of Heavy Industry has also sanctioned 2,636 Electric Vehicles (EVs) Charging Stations amounting to Rs 500 Crore (Approx.) in 62 cities across 24 States/UTs under FAME India (Faster Adoption and Manufacturing of Hybrid & Electric Vehicles in India) scheme phase II.

(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.

ANNEXURE-I**Details of the cities selected and being funded for pilot project of
Electric/ Hybrid Public Transport**

S.No.	City	Buses
1	Mumbai	40
2	Navi Mumbai	30
3	MMRDA	25
4	Lucknow	40
5	Hyderabad	40
6	Indore	40
7	Kolkata	80
8	Jammu	40
9	Guwahati	15
10	Himachal Pradesh	75
Total		425

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

S.No.	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 BandraKurla Complex, MMRDA Mumbai	Mumbai Metropolitan Region Development Authority (MMRDA)
6	Proposal for 25 Electric Buses by HP Government	Himachal Pradesh 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 by REIL, Jaipur	Rajasthan Electronics & Instruments Limited (REIL), Jaipur
9	Proposal for putting up of Solar Based Charging Infrastructure for Evs in the premises of Udyog Bhawan by BHEL	Bharat Heavy Electricals Limited (BHEL)
10	Technical Development Project for advanced Gen-IV Lead Acid Battery & Gen-Nickel-Zinc Battery for Evs	Non-Ferrous Materials Technology Development Centre (NFTDC), Hyderabad
11	Proposal for 2 Electric Vehicles (5-7 Seater) for Land Port Authority of India at Agartala	Land Port Authority of India (LPAI)
12	Proposal for Centre of Advanced Research in Electrified Transportation (CARET) at AMU	Aligrah 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 Super capacitors	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 Co- Principal Investigator Thapar University, Amrita Vishwa Vidyapeetham, Lithium Urban Technologies <u>Industry Partners</u> Elecsys Technologies Pvt. Ltd., Engie (GDF Suez Energy) , Linkwell Telesystems , Yexcube Technologies
20	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
21	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.
22	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.
23	Procurement of 30 Nos of Electric Buses	Navi Mumbai Municipal Transport (NMMT)
24	Solar Grid Hybrid and Grid powered Charging Stations (270 Chargers)	Rajasthan Electronics & Instruments Limited (REIL)
25	Proposal for grant-in-aid for test facility infrastructure for EV and Electric Vehicle Supply Equipment (EVSE) performance test/ certification from NATRiP	National Automotive Testing and R&D Infrastructure Project (NATRiP)
26	Setting-up of Solar Based EV Chargers	Bharat Heavy Electricals Limited (BHEL)
