



भारत सरकार
GOVERNMENT OF INDIA
भारी उद्योग एवं लोक उद्यम मंत्रालय
MINISTRY OF HEAVY INDUSTRY & PUBLIC
ENTERPRISES
भारी उद्योग विभाग
DEPARTMENT OF HEAVY INDUSTRY
(AEI Section)

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उद्योग भवन

Udyog Bhavan
नई दिल्ली New
Delhi-110011

Ref. No. 12(27)/2015- AEI (6710)

Dated: 08.06.2015

To

As per list attached.

Sub: Minutes of the 1st Project Implementation and Sanctioning Committee (PISC) meeting under FAME-India Scheme held on 13.5.2015 at 11.00 A.M. in Udyog Bhavan, New Delhi under the Chairmanship of Secretary, Department of Heavy Industry.

Sir,

I am directed to forward herewith a copy of the minutes of the 1st meeting of the Project Implementation and Sanctioning Committee (PISC), under FAME-India Scheme, held on 13.5.2015 at 11.00 A.M. in Udyog Bhavan, New Delhi, under the Chairmanship of Secretary, Department of Heavy Industry for information and taking necessary action.

Yours faithfully,

(Dinesh Pal Singh)

Under Secretary to the Government of India
Telefax: 011-23061045

Copy to:-

- (i) Member (R&D), NAB
- (ii) PPS to AS, DHI
- (iii) PS to Director(Auto), DHI

Issued w/e
9/6/15

List

1. Dr. Rajan S. Katoch, Secretary, DHI.
2. Shri S.K. Bahri, AS&FA, DHI
3. Ms. Rashmi Urdhwareshe, Director, ARAI
5. Shri K.K. Gandhi, ED, SIAM
6. Shri Manu Sharma, AD, SMEV
7. Shri C. G. Anand, GM(Tech.), BMTC
8. Shri Vishal Chugh, GM(PM), Votro
9. Shri Vivek Ashok Achalkar, Navi Mumbai Municipal Transport
10. Shri Kartik Gopal, Mahindra Reva
11. Shri Parag V. Muley, MMRDA, Mumbai
12. Smt. Surbhi Maheshwari, Project Officers, IIT Madras
13. Shri B. Ravindran, Sr. Manager, Hero Electric
14. Shri A.M. Manichan, Deputy Secretary, DHI

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Minutes of the 1st Meeting of Project Implementation and Sanctioning Committee under FAME-India Scheme

Date: 13th May 2015

Time: 11 AM

Venue: Kausthubham, Udyog Bhavan, New Delhi

1. First Meeting of the Project Implementation and Sanctioning Committee, under FAME-India Scheme, was held on 13th May 2015 under the Chairmanship of Secretary, DHI. List of the participants is attached as Annexure 1.

2. At the outset, SHI welcomed the participants and stressed upon the need for active participation by all stakeholders for the effective roll out of FAME-India Scheme. He also mentioned that the pilot projects should be implemented in a time bound manner, duly assessed and monitored and the learnings from them applied to later projects.

3. Initiating the discussion, Additional Secretary (AS), DHI informed that advance action had been taken by the department to garner support from State Governments, Industry, Academia and other Institutional Stakeholders to formulate viable pilot proposals to kickstart the FAME-India Scheme all over the Country. All the State Governments were asked to nominate nodal officers in this regard to provide a central point for DHI to act and about 15 States have so far complied. AS-DHI had taken meetings with the nodal officers, industry, etc. to elaborate upon the scheme components and to urge them to take concerted efforts towards effective implementation of the scheme in their respective States. Following this, a number of pilot proposals for launch of innovative projects involving different segments of EV/HEVs, Charging Infrastructure, Testing Infrastructure facilities etc. were received by DHI, which were scrutinised in detail in the Screening Committee Meeting held under the Chairmanship of AS-DHI on 07.04.2015. AS-DHI further informed that the eligible proposals among them have now been included for consideration in this PISC meeting.

4. During the meeting, each of the following proposals was discussed in detail and, decisions taken are mentioned below.

Sr No	Nature of Proposal	Name of Agency	Project proposals in brief	Category & Amount Proposed for release	Decision of PISC
1	Proposal for funding public fast charging infrastructure network pilot for electric Vehicles at Bangalore, Karnataka	M/S Mahindra Reva Electric Vehicles Pvt Ltd in collaboration with Lithium Urban Technologies Pvt Ltd.	Proposal is for 100, Mahindra Reva E20 vehicles for commuting employees of IT companies as part of corporate taxi fleet by Lithium Urban Technologies Pvt. Ltd. <ul style="list-style-type: none"> 100 E20 Cars: Incentive as proposed in the scheme. 25 Fast Charging Stations @ 50% of ₹ 5.50 Lakhs per unit, i.e Total Cost ₹ 2.75 Lakhs per unit X 25 charges. 	₹ 0.70 Crore Category : Charging Infrastructure	<ul style="list-style-type: none"> Mahindra-Reva clarified that 50% of the cost of charges will be borne by them, as a promotional measure, to explore the potential to access the large corporate taxi market for deploying EV-Taxis in urban India. The PISC approved the partial support as proposed @ 50% cost of 25 Fast Charging Stations (Total ₹ 70 Lakh), with the condition that (a) ownership of the Fast Charging Stations will be with Mahindra-Reva, in order to ensure long term maintenance and service of the charging stations as Taxi Contracts may

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			<ul style="list-style-type: none"> • Approx Amount: ₹ 70 Lakh 		<ul style="list-style-type: none"> • undergo change in future. • (b)The Fast Charging stations will be accessible to other general public users also. • As far as incentive for 100, Mahindra Reva E20 cars is concerned, Committee noted this and asked the user agency to avail normal incentive benefit available in the scheme as per the prescribed procedure.
2	Proposal for funding the pilot project on electric vehicle based employee commuting using solar charging and normal charging in Bengaluru, Karnataka (BMTc).	Bangalore Metropolitan Transport Corporation (BMTc)	<p>Proposal is for 10 Mahindra Reva E20 vehicles for commuting employees of Bangalore Metropolitan Transport Corporation and provision of charging infrastructure.</p> <ul style="list-style-type: none"> • 10 E20 vehicles: Incentive as proposed in the scheme. • Solar Powered Charging Station with Fast Charging facility, etc. • 40 normal charging Stations: one each for its 40 depots @ ₹10,774 per charger • Approx Amount ₹ 4.5 Lakh 	₹ 0.045 Crore <u>Category:</u> Charging Infrastructure	<ul style="list-style-type: none"> • The PISC noted with appreciation this initiative by the BMTc for adopting electric mobility for Government own use, and the large number of charging points that will become available in Bengaluru for the benefit of all EV users. • The PISC approved the 100% funding of ₹ 4.5 Lakh for 40 normal charging stations. • The incentive for the vehicles may be claimed as per the procedure for demand incentive delivery under the scheme. • As regards Solar Powered Charging Stations, DHI is in the process of evolving the optimum design, specs etc. which will be issued shortly. • The Karnataka State Transport Department may also undertake a study on the performance of the vehicles (e.g. battery charging behaviour, range, fossil fuel saved, CO₂ reduction etc.) and share their observations with the DHI/NAB.
3	Proposal for funding Public Fast Charging Infrastructure Network Pilot for electric Vehicles in Bengaluru, Karnataka	Karnataka State Transport Department	<p>Proposal is for providing 10 public fast charging infrastructure stations, open to all E-vehicle users, free for first year and chargeable from next year.</p> <p>These charges will be deployed at various RTO offices.</p> <ul style="list-style-type: none"> • 10 fast charger stations @ ₹ 5.5 Lakh per 	₹ 0.55 Crore <u>Category:</u> Charging Infrastructure	<ul style="list-style-type: none"> • The project for 10 Fast Charging Stations was approved with 100% funding with the proviso that the RTOs will also enable access for EV charging by the general public visiting the RTOs. • While such easy public access should be ensured, the RTOs may decide on the Billing for the Electricity consumed for the charging by the general public after initial one year of free charging committed by

			charger, exclusive of taxes		the proposing agency.
			<ul style="list-style-type: none"> Approx Amount: ₹ 55.00 Lakh 		
4	Proposal for funding EV Based Public Commuting Pilot with electric vehicles in Bengaluru, Karnataka	Karnataka State Transport Department	<p>Proposal is for providing 10 Mahindra Reva E2o vehicles for official use of transport department officials.</p> <ul style="list-style-type: none"> 10 E2O Cars: Incentive as proposed in the scheme. 		<ul style="list-style-type: none"> The proposed fleet of 10 EVs may avail of the consumer incentive as available under the FAME scheme, as per the procedure notified. The Karnataka State Transport Department may also undertake a study on the performance of the vehicles (e.g. battery charging behaviour, range, fossil fuel saved, CO₂ reduction etc.) and share their observations with the DHI/NAB.
5	Pilot Proposal for 5 Hybrid Buses for Navi Mumbai, Maharashtra	Navi Mumbai Municipal Transport Corporation	<p>Proposal is to provide 5 hybrid buses for public transport in Navi Mumbai.</p> <ul style="list-style-type: none"> 5 Hybrid buses: Incentive as proposed in the scheme @ ₹ 18 lakh per bus. (Table 6 of the Fame India Scheme) 		<ul style="list-style-type: none"> Committee noted that the proposal of Navi Mumbai MTC will be eligible for incentive as notified for the Hybrid Buses and the supplier could claim as and when vehicles are delivered to the Corporation as per the prescribed procedure under the Scheme. The Navi Mumbai Municipal Transport Corporation may also undertake a study on the performance of the vehicles (e.g. battery charging behaviour, range, fossil fuel saved, CO₂ reduction etc.) and share their observations with the DHI/NAB.
6	Proposal for establishment of Testing Infrastructure for Certification testing of Electric and Hybrid Vehicles at ARAI, Pune	ARAI	<p>Proposal is for testing infrastructure for certification of Electric and Hybrid Vehicles, proposal has been recommended by Technology Advisory Group (TAG) in its meeting on 6th May 2015.</p> <ul style="list-style-type: none"> Total project cost ₹ 50 crore First Phase expenditure: ₹ 30 crore in 2015-16. 	₹ 30.00 Crore <u>Category:</u> Technology Platform Testing Infrastructure	<ul style="list-style-type: none"> ARAI has to set up advanced testing infrastructure urgently for testing HEV/EVs manufactured and sold in India. Accordingly, PISC approved the Phase-I project of ₹ 30.00 crore, as proposed by TAG. ARAI may take urgent action in this regard and ensure completion of the project in a time bound manner and to ensure fund utilisation within the current financial year so as to enable Industry to speedily bring in new models of xEVs into the market.
7	Proposal for Preparation	ARAI	Proposal is for standardization of	₹ 0.15 Crore	<ul style="list-style-type: none"> The PISC approved the project with expenditure of ₹ 15 lakh,

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	for specifications and Finalising Draft Standards of xEV Charging Stations (ARAI, Pune)		<p>specifications for AC/DC charging stations for uniformity across the country for issuance of notifications.</p> <p>Approved by TAG in its meeting held on 6th May 2015.</p> <ul style="list-style-type: none"> Total project cost ₹ 15 lakh 	<p>Category: Technology Platform & Charging Infrastructure</p>	<p>for a period of six months as recommended by TAG.</p> <ul style="list-style-type: none"> The ARAI was requested to initiate immediate action on this urgently as Standards Development Program is topmost priority issue in the public charging infrastructure component of the scheme.
8	Proposal for Charging Infrastructure Management System (IIT, Madras)	IIT Madras	<p>Proposal is developing the architecture/design/ Methodology for Charging Infrastructure Management System (Billing & Communication), including development of prototype system for validating the proposed model.</p> <p>Approved by TAG in its meeting held on 6th May 2015.</p> <ul style="list-style-type: none"> Total proposed project cost ₹ 125 Lakh Recommended cost: ₹ 100 Lakh 	<p>₹ 1.00 Crore</p> <p>Category: Technology Platform & Charging Infrastructure</p>	<ul style="list-style-type: none"> The PISC noted that this proposed development project will involve the development of the networked architecture to enable seamless "Interoperability" in the Charging Station Network across the country. The system should be able to accommodate any kind of (approved) chargers (AC/DC/slow/fast charges) that will be deployed. The committee approved the support of ₹ 100 lakh, and directed that it be closely monitored/ overseen by a DHI nominated expert group under Member (Tech), NAB.
9	Proposal for providing 25 Hybrid Buses for Bandra Kurla Complex, MMRDA, Mumbai, Maharashtra	MMRDA, Mumbai	<p>Proposal is 25 Hybrid buses for Bandra Kurla Complex.</p> <p>25 Hybrid buses: Incentive as proposed in the scheme @ ₹ 66 Lakh per bus. (Table 5 of the Fame India Scheme). The balance cost shall be borne by MMRDA from its own resources.</p>		<ul style="list-style-type: none"> The 25 bus fleet would be the first of its kind in an Indian Metro City, which will act as a demo-project for clean public transport under FAME-Scheme. PISC noted that the Demand Incentive may be availed by MMRDA as per the notified scheme. The performance of this fleet may be closely monitored by MMRDA, NAB/DHI for obtaining feedback on its utilization, including performance issues in the Typical Monsoon Weather, big city condition which can be well studied in Mumbai, as a type example. This project will also be used for performance appraisal of Hybrid Buses and MMRDA may share the appraisal data with DHI/NAB.

4. In addition, following agenda items under the category of were also discussed and decisions taken as given below.

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(1) Approval of Expenditure incurred for First National Workshop on FAME-India Scheme:

With the approval of competent authority, First National Workshop was held on 8th April 2015 followed by the official launch of the scheme, xEV Display & Media Event by Hon'ble Minister (HI&PE) Shri Anant Geete. The workshop was well attended by senior State Government officers, Central Ministries, industry and academia. Workshop was arranged in collaboration with SIAM and total expenditure incurred is about ₹ 10 Lakh.

The PISC approved the allocation of ₹ 10 lakh, (Category: IEC) for conducting the First National Workshop xEV Display & Media Event under FAME Scheme.

(2) IEC Proposal for holding of Electric and Hybrid vehicles Rally on the eve of World Environment Day (5th June, 2015):

As a part of IEC activities under FAME-India Scheme, it is proposed to hold an electric and hybrid vehicles rally on the World Environment Day, in collaboration with SMEV and SIAM. Total Expenditure for this rally is estimated at about ₹10 Lakh.

The proposal for xEV Rally on World Environment Day (5th June, 2015) with support of ₹ 10 lakh, (Category: IEC) was approved by PISC.

(3) Development of EV 2 wheeler kit as approved by TAG:

TAG has recommended for consideration the project submitted by IIT Madras, along with industry consortium, for development of a EV kit for 2 wheelers. Total Cost of project is about ₹ 8.10 Crore.

The PISC noted that this is a pioneering initiative for generic technology development in 2-wheelers EVs platform, which is expected to constitute the bulk of vehicle sales in the country. The project may be supported with support of ₹ 563.5 lakh (₹ 5.635 Crore) (Category : Technology Platform) as Technology Development Assistance Grant by the Department. The NAB may closely monitor the project for its timely implementation. A Consortium Agreement in the Standard Format approved by the Department may be utilized to initiate the project. Fund will be released to NAB for utilisation by consortium partners as per standard procedure.

5. PISC directed that necessary follow up action must be taken to ensure early release and timely utilisation of funds for the approved items as detailed above. It was decided to take necessary follow up action with the concerned stakeholders to elicit more response and contribution in terms of viable projects necessary for the successful roll out of xEV ecosystem in India.

6. The meeting ended with thanks to the chair.



Annexure-I

List of Members of PISC, who attended the PISC Meeting held on 13.5.2015 at
11.00 AM

Members:

1. Dr. Rajan S. Katoch, Secretary, DHI (Chairman)
2. Shri S.K. Bahri, AS&FA, DHI
3. Shri Ambuj Sharma, Additional Secretary, DHI
4. Ms. Rashmi Urdhwareshe, Director, ARAI
5. Shri K.K. Gandhi, ED, SIAM
6. Shri Manu Sharma, AD, SMEV
7. Shri Praveen L. Agrawal, Director, DHI

Others:

1. Shri Saurabh Rohilla, DD, SIAM
2. Shri C. G. Anand, GM(Tech.), BMTC
3. Shri Vishal Chugh, GM(PM), Votro
4. Shri Vivek Ashok Achalkar, Navi Mumbai Municipal Transport
5. Shri A. A. Deshpande, ARAI
6. Shri Kartik Gopal, Mahindra Reva
7. Sharan Singh, Mahindra Reva
8. Shri Parag V. Muley, MMRDA, Mumbai
9. Shri Mahesh Ratnakar, Consulted , NMRDA
10. Smt. Surbhi Maheshwari, Project Officers, IIT Madras
11. Shri S.C. Godil, ARAI, Pune
12. Shri B. Ravindran, Sr. Manager, Hero Electric
13. Shri Arbab Ashraf, Hero Electric
14. Shri A.M. Manichan, Deputy Secretary, DHI