



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. 7(35)/2015- AEI (8406)

Dated: 28th December, 2015

To

As per list attached.

Sub: Minutes of the 3rd Meeting of the Project Implementation and Sanctioning Committee (PISC) under FAME-India Scheme held on 04.12.2015 at 3.00 P.M. in Udyog Bhavan, New Delhi under the Chairmanship of Secretary, Department of Heavy Industry.

Sir/Madam,

I am directed to forward herewith a copy of the minutes of the 3rd Meeting of the Project Implementation and Sanctioning Committee (PISC), under FAME-India Scheme, held on 4.12.2015 at 3.00 P.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) PSO to SHI.
- (ii) PS to AS & AF, DHI
- (iii) PPS to AS, DHI
- (iv) PS to JS(RKS), DHI
- (v) Member (R&D), NAB
- (vi) PS to Director(Auto), DHI

**Minutes of meeting of Project Implementation and Sanctioning Committee
dated 4th Dec 2015**

The third meeting of Project Implementation and Sanctioning Committee was held on 4th Dec 2015 at Udyog Bhavan. At the outset, Member Secretary (Director Auto) apprised the members about the implementation status of the FAME India Scheme.

Before commencement of the proceedings, Chairman PISC (Secretary SHI) desired that following points may henceforth be taken care of;

- a. To apprise the committee of Action Taken Report (ATR) on the decision taken in last PISC meetings.
- b. To issue Meeting notice at least 15 days in advance.
- c. Written comments of each member of the Internal Scrutiny Group must be obtained.
- d. Technology and R&D proposals to be placed along with Technology Advisory Group's recommendations
- e. Only members to attend the PISC meeting.
- f. Applicant may be called to present proposal one by one.

With the permission of the Chair, each agenda item was taken up for discussions and consideration by PISC.

After due deliberation and discussions, following decisions were taken.

Agenda 1: To finalize the signage for EV charging Stations:

For finalizing uniform pattern of signage for EV Charging Stations, 3-4 options were presented before the committee. The Committee deliberated in detail and after due discussions, the Committee recommended adoption of the signage as shown in (Annexure 1) with the caveat that it must clearly indicate type of charging (Fast/Slow) and which category of vehicles which can be charged (i.e. 2W/4W/Buses etc).



Agenda 2: Project proposal for Centre for Battery Engineering:

Electrical Engineering Department of IIT Madras submitted a proposal for starting of 'Centre for Battery Engineering' under Technology Platform of FAME India Scheme at the total cost of Rs. 17.48 Crores. PISC desired to know the clear objective of the project and the level of industry participation in the commercial use of the outcome of the project. Committee also desired to know the role of other institutions (like IIT Kharagpur, NIFTDC etc.) known for expertise on battery technologies, to avoid the possibility of any duplication and also to synergize the facilities available with such institutes.

The Committee desired that a fresh proposal incorporating the details and information as sought by the committee be submitted.

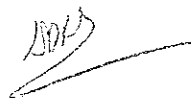
Agenda 3: Low Voltage DC Fast Charger for 2, 3 and 4 wheelers:

ARAI has submitted the proposal for "in-principle" approval for development of 'Low Voltage DC Fast Charger for 2, 3 and 4 wheelers'. Based on the recommendation of TAG and Screening Committee, PISC accorded "in-principle approval" to this project with the time line that the proposal for specific / formal approval along with funds requirement may be submitted by ARAI by February 2016.

Agenda 4: Proposal for xEV One submitted by ARAI

This proposal is submitted by ARAI in collaboration with SIAM and 4 industry partner, i.e. Mahindra and Mahindra, Mahindra Rewa, Tata Motors and Maruti Udyog Limited for development of 15 nos prototype EV and PHEV vehicles in the small segment of 4 wheeler with weight less than 1.5 tons. The total cost of the project is Rs. 44 Crores. This project aims development of 'broad level common industry specification' for xEV vehicles so as to achieve economies of scale to reduce the cost of the product.

After detailed deliberations and discussions, the Committee was of the considered view that larger participation from the industry to the extent of at least 50% right from the beginning would be more appropriate. As such, Committee desired that a revised proposal may be submitted for further scrutiny.



- Agenda 5:** Proposal submitted by Green Valley Energy Ventures Pvt Ltd
- Agenda 10:** Proposal from M/S Amperes Pvt Ltd for providing Chargers for Electric bike taxi project
- Agenda 9 A:** Proposal for funding 50 Fast Charging stations in Bangalore
- Agenda 9 B:** Proposal from Asia Electric and Ola Cabs for pilot projects on electric vehicles

Green Valley Ventures Pvt Limited has started the ebike taxi project in Gurgaon by deploying 300 ebikes. In order to optimize the utility of ebike, promoter submitted the proposal for financial support for the purchase of 300 additional lithium batteries along with 2 nos. Rapid Charging Box at the total cost of Rs. 1.46 crores.

M/S Ampere Pvt Ltd, a leading manufacturer of 2W and 3W vehicles in south India submitted a project for financial assistance for providing 200 nos additional lithium batteries to the fleet of 250 electric 2W provided for ebike taxi services to be started at Noida, Bangalore and Coimbatore.

M/S Lithium Urban Technologies have submitted the proposal for financial support of 50 fast Charging stations at the total cost of Rs. 3.75 crore.

Asia Electric and Ola Cabs have submitted the proposals for providing 150 AC smart chargers and 30 DC fast Chargers.

PISC discussed these four proposals and after due deliberations and discussions, agreed that there should be a clear policy to be decided in advance about the extent of support to be provided to private sector applicants for such type of projects of charging infrastructure and battery swapping, and that such infrastructure should be accessible for general public use. The Committee suggested that a framework be proposed for consideration by the PISC at its next meeting, and the four proposals in question be considered for support in line with the principles of the framework adopted.

Further, as it is Government's main responsibility to provide basic charging infrastructure, a public sector organization may be entrusted with the task of creation and maintenance of such charging infrastructure and battery-swapping facilities at least in the three cities Delhi, Jaipur and Chandigarh where the promotional FAME Eco Drive Rallies were held in November-December, 2015.



Agenda 6: Proposal submitted by HP Govt. for 25 EV buses

Government of Himachal Pradesh submitted a proposal for financial support for purchase of 25 Nos. Electric buses. HP Govt. in its proposal sought financial support to the extent of 75% of cost of Bus i.e Rs. 1.5 crore per bus (Total Rs. 37.5 Crore). State Govt. will contribute rest 25% being the special category states.

PISC felt that the proposal was in line with objectives of FAME, and could be considered as a Pilot project. PISC advised that (a) the project should be implemented in a single city to begin with, in a phased manner (b) technical specifications for the buses needs to be finalized in consultation with DHI. (c) Once this is finalized, the State Government should invite competitive bidding for procurement of buses. (d) Once procurement procedure is completed and supply order issued, the State Government may approach DHI for sanction of the amount and release of funds from FAME.

Agenda 7: Proposal submitted by various State Transport Corporations for sponsoring 2 Nos Electric Buses each under FAME India Scheme.

Various State Government STUs submitted the proposal for 100% financial support for deployment of 2 nos Electric buses each. In this regard, after discussion, PISC agreed that initial push from Government is needed to showcase and exhibit some models of electric buses in STUs for city operations.

Accordingly PISC advised that DHI in consultation with ASRTU may finalize the specification of buses for pilot projects as requested by State STUs. Once this is finalized, the State Governments/SRTCs may procure the buses after calling competitive bids. DHI support will be to the extent of 100% of difference of price between electric bus as revealed from competitive bidding, and cost of equivalent Diesel/CNG bus. PISC directed that ASRTU may come up with detailed policy framework for this by 31st Dec 2015.



Agenda 8: Proposal submitted by Sunilhitech for retrofitment of electric buses.

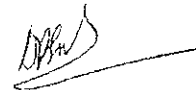
M/S Sunilhitech has submitted a proposal for retrofitment of S Buses of MSRTC to fully electric. For this they have already taken the permission from MoRTH. Work of retrofitment of one bus is already under progress and once completed they will send the same to CIRT for type approval and other testing purpose. For this one bus, entire expenditure will be borne by the promoter. Promoter submitted the proposal for an additional 4 buses for 100% retrofitment.

Since this proposal has not been reviewed by the Screening Committee, PISC deferred this proposal for next meeting.

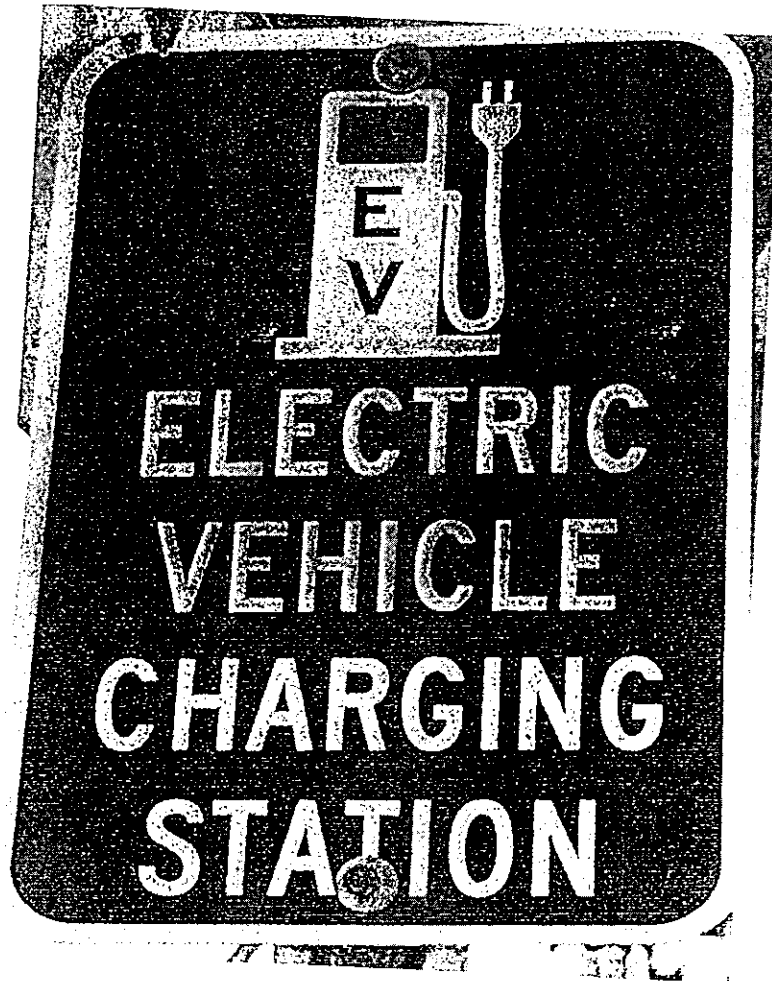
Additional Agenda: Public Charging Infrastructure

In the light of above discussions, Committee was of the opinion that in order to boost the usages of Electric Vehicles, there is a strong need of public infrastructure and that a public charging initiative needs to be taken up by the Government. To begin with, REIL (a Govt. of India Undertaking) may be requested to submit a proposal to PISC for installation of 200 charging stations in the three cities, i.e. Delhi, Jaipur and Chandigarh, where the FAME Eco Drive was held recently.

The Meeting ended with thanks to the chair.



Logo for Charging Station



This should also specify about

Type of Charging like Fast Charging/Normal Charging

Type of Vehicles: 2W/3W/4W/Bus etc.

Handwritten signature

List of Participants

(PISC Meeting held on 04.12.2015)

Members/Officials:

1. Dr. Rajan S. Katoch, Secretary (HI) - In Chair
2. Shri S.K. Bahri, AS &FA (DHI)
3. Shri Ambuj Sharma, Additional Secretary
4. Shri Abhay Damle, Joint Secretary, MORTH
5. Shri Pravin Agrawal, Director (Auto)
6. Shri Priyatu Mandal, Director, Transport, HP
7. Shri Suresh Sachdev, IIT, Madras.
8. Shri A.K. Gaur, US(DHI)
9. Shri D.P. Singh, US(DHI)
10. ✓ Shri R.P. Sharma, Consultant (NAB)

Invitees:

11. Shri W.P. Van Der Vaart, Asia Electric
12. Shri Shawrn Singh, Mahindra Reva
13. Shri Slokarth Dash, Ola Cabs
14. Shri Rahul Maroli, Ola Cabs
15. Shri Pavan Sachdeva, Mahindra & Mahindra
16. Shri Ajith Radhakrishnan, Global Green Growth Institute
17. Shri Anand Deshpande, ARAI, Pune
18. Shri Irashant Patil, Sunil Hitech Eng. Ltd.
19. Shri Priynk Dahankar, Sunit Hitech
20. Shri Yogesh Sharma, KPIT Tech. Ltd.
21. Shri Saurbh Rohilla, SIAM
22. Dr. Tapan Sahoo, MSIL
23. Ms. Hemalaltha Annamalai, Ampere Vehicles
24. Shri Sanjay Krishnan, Lithium
25. Shri Ananda Rao, ASRTU
26. Ms. Pooja Sharma, ACMA
27. Shri Karan Chadha, Green Valley
28. Shri Vineet Mehra, Green Valley
29. Shri Ankit Singhvi, NNYENERGY

