F.No. 7(8)/2015-AEI (Pt.)
Government of India
Ministry of Heavy Industries & Public Enterprises
Department of Heavy Industry
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Dated the 11th April 2018

OFFICE MEMORANDUM

Subject: Minutes of the meeting held to discuss “Standardisation of protocol of AC & DC Chargers for electric mobility” - Forwarding of.

The undersigned is directed to forward minutes of the meeting held on 6th April 2018 under the chairmanship of Secretary (Heavy Industry) at Udyog Bhawan to discuss issues related to Charging Standards for electric mobility.

2. This has approval of the competent authority.

(Ajay Kumar Gaur)
Under Secretary to Govt. of India
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To

1. Professor Ashutosh Sharma, Secretary, Department of Science & Technology, New Delhi.
2. Shri Anil Srivastava, Adviser, NITI Aayog, Yojana Bhawan, New Delhi.
3. Shri Abhay Damle, Joint Secretary, MoRTH, Transport Bhawan, New Delhi.
4. Shri A.Kumar, Joint Secretary, Ministry of Power.
5. Shri Pankaj Batra, Member (Planning), Central Electricity Authority, New Delhi.
7. Smt. Rashmi Urldhwareshe, Director, Automotive Research Association of India, Pune.
8. Dr. Sajid Mubashir, Scientist G, Department of Science & Technology, New Delhi.

Copy to:-

1. PR So to SHI.
2. PPS to JS (VS).
3. PA to Director (Auto), DHI.
4. Sr.DO (NLG), DHI.
5. DO (RKJ), DHI.
Minutes of the Meeting on Draft Notification for EV Charging Infrastructure held under the Chairmanship of Secretary, Department of Heavy Industry on 6th April, 2018 at Kaustubham, Udyog Bhawan, New Delhi.

The list of participants is at Annexure – I.

2. JS(Auto), DHI welcomed the participants and stated that before the technical details of the present recommendation of the committee headed by Director, ARAI are discussed, it is necessary to understand the landscape and background of the issue.

I. At the outset, it was essential to understand the context of DHIs authority in the matter. It was stated that the mandate for DHI to introduce any measure for the rollout of e-mobility lay in terms of para 12 of FAME Notification dated 13-03-2015, where DHI has been stated to be the nodal agency for addressing issues relating to the guidelines (under FAME) and for removal of obstacles in the implementation of the scheme. It is noteworthy that unlike in the present scenario, at that point of time DHI was the only Department engaged in the administration of e-mobility.

II. In accordance with the above mandate, recommendations for charging protocol were made by an Expert Committee for low power AC and DC Chargers for EVs having battery voltage of less than 100 volt (Bharat EV Charger). This report has been adopted by DHI and communicated to all concerned Ministries.

III. After this, DHI constituted a Committee under the Chairmanship of Director, ARAI to finalise protocol for high power AC & DC chargers for EVs with the approval of Minister (HI&PE) on 03-01-2018. The recommendations of the Committee were discussed in a meeting held under the Chairmanship of SHI on 26-02-2018 in the presence of representatives of BIS, CEA, DST etc. and a broad consensus was reached as per which Draft Notification on EV Charging Infrastructure was hosted on DHI Website on 10-03-2018 for views from stakeholders. Views from various stakeholders have been received.

IV. It was noted that in the meantime, as per letter dated 6th February, 2018 from CEO, NITI Aayog, a committee was stated to have been formed under the Chairmanship of Secretary, DST for deciding on matters and issues pertaining to Charging Infrastructure. Subsequently, a meeting of the Committee under Secretary, DST has been notified with an approach paper on charging standards as one of the items on the agenda.

V. Elaborating further, it was stated that in a meeting held under the Chairmanship of CEO, NITI Aayog on 5th March, 2018, it was observed that by 2030 there would be a need for 1.1 million chargers. It was, therefore, felt that development of indigenous standards at par with global standards was necessary with 100% indigenous manufacturing of all components of charging infrastructure. In a further meeting held under the Chairmanship of Adviser (Transport) NITI Aayog on 9th March, 2018, views were expressed for need for an India specific charger with Indian Standards with thrust to “Make in India”. It was decided that DST, CEA and BIS need to work together to develop the hardware and software components of the standards. It was further decided that an inter-disciplinary working group comprising CEA, BIS, ARAI, DST etc. would develop Draft Protocol of Indian EV Charging Standards within 15 days and these protocols would be finalised by the Committee constituted by CEO, NITI Aayog for “Finalisation of details for technology development and R&D”.
3. In view of facts explained above, views were sought from the participants whether further work of finalisation of protocol for high power AC & DC Chargers for Electric Vehicles should be done in DHI or DST as it was essential that a finality is achieved in the matter else it would become an impediment in the rollout of any further scheme for e-mobility.

4. Adviser NITI Aayog stated that members of both the committees are common and suggested that work should be done in transparent manner. However, JS, M/o Power felt that it was important to decide the Head of the committee. Members felt that the directions of Niti Aayog are fairly clear and if DST has to be given stewardship of this aspect of e-mobility, the existing work done by the committee headed by Director, ARAI can be transferred as it is to the committee headed by Secretary DST.

5. Shri Sajid Mubashir, Scientist G, DST informed that DST is of the opinion that India should go for a simplified IEC EV charging standards implementation, preferably with a single connector and a single protocol, to cater to 3-wheeled & 4-wheeled vehicles, irrespective of the battery voltage level. The two wheelers will require a specific small size connector but the protocol can remain the same. In the case of buses, pantographs or similar arrangements can be devised with the same protocol. He also suggested that since this has the potential for acceptance globally as a simplified uniform charging standard, it need not be called Bharat or Indian, so as to allow the possibility of its acceptance elsewhere.

6. JS, M/o Power opined that if IEC standards are adopted then India can export EV Chargers. JS MORT&H stated that options of adopting other standards such as Chademo, GBT etc in addition to CCS should not be closed. He opined that multiple options should be retained so that the OEMs of all origins invest in EV manufacturing in India. Member CEA stated that adoption of IEC standards posed no apparent difficulties; however, a policy decision needed to be taken whether an altogether indigenous standard needed to be developed. If required, the same can be developed with some tweaking of software and hardware of the IEC standard. Scientist 'G', DST endorsed this suggestion. Representatives of BIS stated that the committee under BIS would consider the recommendations and notify suitable standards as per their process.

7. After deliberations, it was noted that in view of the directions of Niti Aayog and the deliberations held on the subject in Niti Aayog, the subject of standards for charging protocol is now entrusted to the committee headed by Secretary DST. The existing work done by the committee headed by Director, ARAI can be subsumed in the approach paper to be considered by the committee headed by Secretary DST. Issues raised by members (para 5 and 6 refers) and all other issues may be discussed in the above Committee. DHI will continue to remain associated with the committees at DST as well as Niti Aayog. The process of public consultations on charging standards initiated by DHI based on the ARAI report, as per the earlier mandate under FAME to "remove difficulties", will accordingly come to an end.

8. The meeting ended with vote of thanks to the Chair.
List of Participants

1. Dr. A.R. Sihag, Secretary (Heavy Industry)
2. Shri Vishvajit Sahay, Joint Secretary (Heavy Industry)
3. Shri Anil Srivastava, Adviser (Transport), NITI Aayog
4. Shri Aniruddha Kumar, Joint Secretary, M/o Power
5. Shri Abhay Damle, Joint Secretary, MoRTH
6. Shri Pankaj Batra, Member (Planning), CEA
7. Shri R.K. Mittal, DDG, BIS
8. Shri Pravin Agrawal, Director, DHI
9. Shri N.L. Goswami, Sr.DO, DHI
10. Dr. Sajid Mubashir, Scientist G, Department of Science & Technology
11. Shri Anand Deshpande, Dy. Director, ARAI, Pune
12. Shri Harpreet Singh Purthy, Director, Ministry of Power
13. Shri Rajeev Sharma, BIS
14. Shri P.V. Mathew, BIS
15. Shri A.K. Gupta, Ministry of Power
16. Shri Abhishek Saxena, NITI Aayog
17. Shri Aakash Singh, NITI Aayog