DRAFT

NOTIFICATION

DEPLOYMENT OF ELECTRIC VEHICLE CHARGING INFRASTRUCTURE

1. Normal power conductive charging stations (slow charging) for electric vehicles

Alternating current (AC) normal power conductive charging stations for electric vehicles shall be equipped, for the purpose of interoperability, at least with socket outlets or vehicle connectors of –

i. **For L category electric vehicles**: Industrial socket as per standard IEC 60309

ii. **For M and N category electric vehicles**: Type 2 as described in standard IEC 62196-2

Provided that

i. Socket outlets may be equipped with features such as mechanical shutters.

ii. AC charging stations shall comply with the requirements as specified in AIS 138 (Part- 1) as amended from time to time or IEC 61851-22; till such time as corresponding IS standard is notified

Provided that in case of compliance to IEC 61851-22, additional compliance for changes as per Para 11.0 of AIS 138 – Part 1 shall be demonstrated.

2. High power conductive charging stations (fast charging) for electric vehicles

(i) Alternating current (AC) high power conductive charging stations for electric vehicles of M and N categories shall be equipped, for interoperability purposes, at least with connectors of Type 2 as described in standard IEC 62196-2

Provided that,
AC charging stations shall comply with the requirements as specified in AIS 138 (Part 1) as amended from time to time or IEC 61851-22; till such time as corresponding IS standard is notified

Provided further that,
In case of compliance to IEC 61851-22, additional compliance for changes as per Para 11.0 of AIS 138 – Part 1 shall be demonstrated

(ii) Direct current (DC) high power charging stations for electric vehicles shall be equipped, for interoperability purposes, at least with connectors –

i. **For M and N category electric vehicles (having system voltage not more than 100 V DC)**: as described in standard GB/T 20234.3

ii. **For M and N category electric vehicles (having system voltage more than 100 V DC)**: of the combined charging system 'Combo 2' as described in standard IEC 62196-3

iii. In case of Private DC high power charging stations connectors of Chademo as described in AIS 138 (Part 2) Annex 'A' / IEC 61851-24 System 'A' or GB/T as described in AIS 138 (Part 2) Annex 'B'/ IEC 61851-24 System 'B) may be used.

Provided that:
DC charging stations shall comply with the requirements as specified in AIS 138 (Part 2) as amended from time to time or IEC 61851-23 till such time as corresponding IS standard is notified

Provided further that
In case of compliance to IEC 61851-23, additional compliance for changes as per Para 11.0 of AIS 138 – Part 2 shall be demonstrated

Note: For L category electric vehicles, suitable connector with communication protocol between EV and charger shall be implemented as per below:

a. Definition of connector with communication protocol within 3 months from the date of this notification
b. Voluntary implementation by 2 and 3 wheeler electric vehicle manufacturers within 6 months from the date of this notification
c. Mandatory implementation by 2 and 3 wheeler electric vehicle manufacturers within 2 years from the date of this notification

10 March 2018