

Charge Point Interface (OCPI) 2.1 protocol or Open Clearing House Protocol (OCHP) direct 0.2 or higher version of these protocols as and when released.

- c) The Bidder must make provision that the following information would be made available to its respective DISCOM on a regular basis as agreed upon by TSREDCO.
- Peak hours of EV charging
  - Real-time power consumption from charging from each charge point (using smart meters)
  - Session - Start & Stop for each charger (Timings & Duration)
  - Instantaneous current flow to EV
  - Instantaneous AC RMS supply voltage
  - Instantaneous active power imported by EV (W or kW)
  - Instantaneous reactive power imported by EV (KVA or KVAH)
  - Instantaneous power factor of total energy flow
  - Charger ID
  - Location (GPS coordinates)
  - Emergency Stop (along with reasons), if any
  - Frequency of any voltage fluctuation issue
  - Tariff charged from consumer

### **3. Information to be submitted to open Database:**

The licensee must make provision that the following information would be made available to the open database managed by TSREDCO

#### **a. Station level data:**

- Name of the charging station
- Location (latitude, longitude)
- Modes of payment accepted
- Advance booking availability with available slots
- Operating hours and days
- Operating status (operational or non-operational)

#### **b. Charging unit level data**

- Charging unit ID
- Type of charging gun along with quantity of each and the capacity of each charging gun
- Operating status (Connected or Available or Out of Service)
- Maintenance alerts
- Usage statistics- timestamps of charging usage
- Power consumption- Separately for each charging point

### **4. Safety Norms**

All EV PCS should be incorporated with suitable protection and monitoring devices for safe and reliable operation of charging stations. All PCS must follow the following safety norms:

- 4.1.1 Safety provisions for charging stations, CEA (Technical Standards for Connectivity of Distributed Generation Sources) Regulations, 2019.
- 4.1.2 Bidder shall keep the records to an extent that the PCS installation have been carried out and maintained in accordance with safety norms as per the relevant CEA Regulation & manufacturer's installation and maintenance instructions.
- 4.1.3 All safety standards must be followed as mentioned in CEA guidelines dated 28 June 2019 and subsequent amendments.
- 4.1.4 Protection against the overload of the charging supply and incoming supply fittings must be provided
- 4.1.5 The bidder must ensure that the licensed space for PCS must not be misused due to actions such as intentional / unintentional blocking of parking space by vehicles which are not being charged.

## **5. Selection Process :**

- a) This EOI is invited only from the empanelled Charge Point Operator with TSREDCO. However, if any interested CPO's who are not empanelled with TSREDCO also can empanel/apply for empanelment with TSREDCO on or before the due date of this EOI and participate in this EOI duly submitting valid proof.
- b) The bidders should participate along with the sealed EOI response as per the prescribed format (enclosed) physically on 04/09/2023 at TSREDCO, HO for finalizing /allotment of locations by TSREDCO to bidders.
- c) The bidders should submit the authorization certificate of the person responsible for participating in the EOI.
- d) The Bidders can select any number of locations under this EOI.
- e) Same bidders cannot submit multiple bids for the same locations.
- f) On the date of finalizing /allotment of locations TSREDCO will allot the locations to the bidders.
- g) If multiple bidders opts the same location, then TSREDCO will allot the location based on the following
  - i. EOI with highest capacity of Charger Proposed will be considered as First priority.
  - ii. If the multiple bidders opts the same location with the same capacity, then auction will be conducted in respect of Revenue sharing.
  - iii. In case if the allotment is not finalization with above process, then the allotment will be done on lottery basis.
  - iv. If the selected bidder fails to pay the security deposit within 3 days that will be treated as non responsive and stands automatically cancel. No separate notice will be issued in this regard.
  - v. The decision of TSREDCO in this regard is final and reserves the right to accept or reject the EOI without assigning any reason.

## 6. Terms and conditions :

- a) The Selected bidders shall pay a Security Deposit of Rs 1,00,000 (Per Location) in the form of DD or BG within 3 working days from the date of LOA Issued. The BG should be from any Nationalized Bank/Scheduled Bank valid for 10 years 6 months on M/s TSREDCO, Account no: 09540100026192, Bank of Baroda, Khairathabad, Hyderabad) IFSC Code: BARB0KHAIRA (fifth character is 0 'zero'. No interest shall be paid by TSREDCO on the amount of Performance Security deposit.
- b) All Electric Vehicle supply Equipment (EVSE) should have been type tested ARAI/ICAT for testing and Calibration from time to time. And also these Electric Vehicle Supply Equipment should be as per Indian standards for EV charging notified by Bureau of Indian Standards (BIS) on 01.11.2021 and which is also mentioned in revised guidelines and standards issued by Ministry of Power, Govt of India. Vide ref. No. 12/2/2018-EV (Comp No.244347) Dated: 14th January 2022 .The Electric Vehicle supply Equipment (EVSE) to be installed by the Charge Point Operators (CPO). The Selected CPO's should comply with the technical guidelines issued by TSREDCO from time to time.
- c) TSREDCO will enter Bi-lateral or Tripartate agreement as required. The Draft Agreement to be entered is placed at Annexure-II.
- d) If the successful bidder fails to complete the work allotted in the stipulated time, the security deposit will be forfeited and TSREDCO reserve the right to forfeit the Security deposit and the decision of TSREDCO in this regard is final.
- e) In case of any delay in the execution beyond the stipulated schedule/completion period including any extension permitted in writing by TSREDCO, TSREDCO reserves right to recover from the bidder by a way of demand notice a penalty at the rate of INR 10,000 for each site per week up to a maximum of INR 50000/- for locations allotted.

## 7. Project timeline:

- a) Total duration for the project shall be **02 (Two) months**. Project milestones are as under.

S.No	Activity	Timeline
1.	Location occupation by successful bidders	Within 7 days from the date of Agreement with TSREDCO
2.	Site Clearance, applying of Electrical Connection & placement of Purchase order for procurement of EV Chargers	Within 14 days from the date of Agreement with TSREDCO
3	Installation of the charging station with complete civil works and associated Electrical Works	Within 45 days from the date of Agreement with TSREDCO
4.	Commissioning of the Ev Charger and enlisting in TSEV Mobile APP	Within 60 days from the date of Agreement with TSREDCO

**Note \*:** The successful bidder needs to submit all the proofs to TSREDCO pertaining to the above from time to time. TSREDCO reserves the right to cancel the allotment and forfeit the Security deposit if the bidders fail to meet the above time lines without valid reason acceptable to TSREDCO. The failure to operationalize the mandates will lead to weekly penalty.

The interested Charge Point operators who are empanelled/applied for empanelment with TSREDCO should participate along with the sealed EOI response as per the prescribed format (enclosed in Annexure- II) physically on 04 /09/2023 at TSREDCO, HO for finalizing /allotment of locations by TSREDCO to bidders.

Sd/-  
VC & Managing Director

// T.C.F.O.B//

  
Project Director (EVI)