

**TAMIL NADU ELECTRICITY REGULATORY COMMISSION**

**(Constituted under Section 82 (1) of the Electricity Act, 2003**

**Central Act 36 of 2003)**

**PRESENT:-**

**Thiru.M.Chandrasekar**

**.... Chairman**

**Dr.T.Prabhakara Rao**

**.... Member**

**and**

**Thiru.K.Venkatasamy**

**.... Member (Legal)**

**M.P.No.22 of 2020**

**CE/Commercial, TANGEDCO**

**..... Petitioner  
(Adv.M.Gopinathan)**

**Hearing dated : 06-10-2020**

**DAILY ORDER**

Thiru.M.Gopinathan, Standing Counsel for TANGEDCO appeared and submitted that the stakeholders comments have been received and the remarks will be submitted in the next hearing. Arguments of Thiru.Rahul Balaji, Advocate and Thiru.S.P.Parthasarathy, Advocate heard. The case is adjourned to 01.12.2020 for further hearing. Meanwhile, Commission issued the following directions to TANGEDCO.

The licensee to conduct sample measurements at Industries duly following the guidelines as mentioned below.

- i) Measurements shall be made at the Point of Common Coupling (PCC) at the HV SIDE or the LV SIDE as the case may be as cited in the IEEE 519-2014.
- ii) The short circuit current at PCC and the average maximum load current (as specified and arrived in the IEEE STANDARD) shall be furnished along with the detailed report.

- iii) The report shall contain measurement methodology, duration of measurement, measurement of individual harmonic from 5th to 50th, for arriving the multiplier so as to give relief in respect of the individual harmonics limited within 25% of the values specified against the individual harmonics. All these shall be as per the CEA Regulation read with IEEE STANDARD 519-2014.
- iv) The duration of measurement shall be strictly adhered to as per IEEE STANDARD , otherwise the current harmonic distortion value arrived by measurement may drift from the true value and lost the precision.
- v) The measurement shall be done with a class A meter which will fully (not partially) complaint as per the specifications of both standards viz, IEC6100-4-7(edition 2.0)., IEC 6100-4-30(Edition3.0).The existing meters may be connected in parallel and the recordings of both the meters shall be furnished. The difference between the measurement suggested by TANGEDCO and the CEA methodology to be studied in detail.
- vi) Measurements shall be taken at least two or more industries likely with more harmonic generation in each voltage level of (HT)11 kv, 22 kv, 33kv, and EHT and especially measurement at electric traction, induction and arc furnaces and welding, IT parks, variable drive frequencies load etc., shall be done.
- vii) The measurement shall be done when industry is working with a load current nearer to maximum demand average current arrived as per the IEEE definition so as to get a real representative current harmonic distortion value
- viii) The measurement shall be done in the presence of the consumer or his authorised representative.
- ix) The report shall invariably mention the period of measurement, the meter details, like make, slno., compatibility with both the IEC STANDARDS, with its full specifications.
- x) The licensee shall be in a position to clarify any queries raised on measurement and its report.

- xi) The report shall be in hard copy (in duplicate) and all measurements and loggings by the meter in soft form for analysis purpose.

Such a field measurement report will help the Commission to take proper decision.

(Sd.....)  
**(K. Venkatasamy)**  
**Member (Legal)**

(Sd.....)  
**(T.Prabhakara Rao)**  
**Member**

(Sd.....)  
**(M.Chandrasekar)**  
**Chairman**

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**Secretary**  
**Tamil Nadu Electricity**  
**Regulatory Commission**