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KARNATAKA POWER TRANSMISSION CORPORATION LIMITED
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Corporate Office
Kaveri Bhavan, K.G Road,

Date: 7/8/18

KPTCL/B28(a)/CEE/RT&R&D/KCO-80/45953/16-17/107

CIRCULAR

Sub: Calibration of interface Energy meters provided at the interconnection point with the KPTCL Grid -reg.

- Ref:**
- 1) CEA [Installation and Operation of Meters] Regulations-2016.
 - 2) Karnataka Electricity Grid Code-2015.
 - 3) Order no: KPTCL/B28/B13/3595/91-92 dated 21-03-2005.
 - 4) Circular no: KPTCL/B19/3604/92-93(H) dated 21-05-2012.
 - 5) Circular no: KPTCL/B19/3604/92-93(H) dated 16-03-2013.
 - 6) Note no: CEE/RT&R&D/KCO-80/45953/16-17/107 dated 15.12.2016 of the CEE (RT&R&D), KPTCL approved by MD, KPTCL on 18.02.2017.
 - 7) Letter no: KPTCL/B36/92-93(H)/230-34 dated 31-07-2017 of F.A. (RA)
 - 8) Letter no: KERC/S/F-51-55/17-18/92 dated 11.4.2018 of Hon'ble KERC

As per the Board Order and Circulars cited above, ESCOMs were requested to record the meter readings jointly by KPTCL, ESCOMs and IPPs as these meters record the energy generated by the IPPs and pumped into KPTCL Grid. Further it was instructed that the calibration of energy meters at pooling stations of IPPs shall be carried out jointly by representatives of KPTCL, ESCOMs and IPPs.

Now, it has come to the notice of the Corporation that these circulars focus on calibration of energy meters of the Independent power producers (IPPs) connected at 66 kV and above only. Whereas, IPPs connected below voltage class of 66 kV and the category of Generators (other

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than IPP) such as merchant power plants namely UPCL and power plants of KPCL are not considered. There is necessity to provide directions to the field staff regarding periodicity or frequency at which the interface meters are to be calibrated. Also, the meter provided to each generator in a power plant consisting of multiple generator units pumping energy to a pooling station are to be considered for calibration. For this purpose, the definition adduced to Interface point/Interconnection point plays an important role in deciding whether a particular point is to be considered either as Interface point or Interconnection point or not. The definition of Interface points in different context are annexed with this Circular for reference.

Hence, the matter was referred to the Hon'ble Commission seeking clarification approval regarding the frequency of calibration of meters and the charges to be levied for calibration. The Hon'ble Commission has opined that since meters will be re-tested and calibrated immediately on a monthly basis whenever there is a variation in the monthly reading between Main & Check meter beyond permissible limits in accordance with the article 'Metering and Communications' of Power Purchase Agreement (PPA) / Wheeling and Banking (W&B) Agreement. Therefore testing the accuracy of meters on a quarterly basis although stipulated in the PPA / W&B Agreement is felt not necessary. The Commission has noted that, since the energy recorded in the tariff meter is bulk in nature, there is huge financial liability on ESCOMs and hence it is the responsibility of the ESCOMs to calibrate/test the IF point energy meters periodically for accuracy. Considering these facts, Hon'ble Commission has directed to follow the guidelines issued vide letter dated 11.04.2018 under ref (8) regarding Calibration of Interface Energy meters provided at the interconnection point with the KPTCL Grid as stated below:

1. The Periodical Calibration of IF meters are to be carried out once in six months by ESCOMs.
2. In addition to the above IF meters, the meters pertaining to 11 kV and above voltage class having interface with transmission system of KPTCL installed at the pooling station shall also be considered as IF meters and calibrated once in a year. These meters shall be calibrated jointly in presence of representatives of KPTCL, concerned ESCOM and the Generator/IPP.

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3. Further, as per Regulation 18 of CEA Regulations 2016 (Installation and Operation of Meters) the Pooling Station/Generator Interface Energy meters have to be tested for accuracy once in Five years at different percentages of loading and power factor (with all applicable test conditions) jointly in presence of representatives of KPTCL, concerned ESCOM and the Generator/IPP.
4. However, the calibration of Interface point Energy meters shall be initiated:
 - a. Whenever the variation in the monthly meter reading between the main meter and check meter is more than the permissible limits.
 - b. When there is any replacement of instrument transformers (CT & PT), ETV Meter etc., and
 - c. In any other situations, when energy meters need calibration.
5. The fee to be collected from the Generator/IPP for calibration of the meters shall be Rs. 10,100 per test. The same shall be collected by the entity actually conducting the test and issuing the test report.

The above guidelines shall be scrupulously followed and shall come into immediate effect.


Deputy General Manager (Tech.)
KPTCL

To:

1. The Managing Director - BESCOM, HESCOM, MESCOM, CESC, GESCOM.
2. All the Chief Engineers (Electy.), KPTCL.
3. All the Superintending Engineers (EI), TL&SS/W&M Circles/RT Circles/Maintenance Circles/Works Circles, KPTCL.
4. All the Executive Engineers (EI), RT/TL&SS Divisions, KPTCL.
5. SPS to MD/DF/D(T)/CS, KPTCL, Kaveri Bhavan, Bangalore.

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The Superintending Engineer (EI), IT & MIS with a request to arrange to upload this circular on the KPTCL website.