

Provision 5 of Gujarat Electricity Grid Code:

5.0 TARIFF METERING

- 5.1 The Generating Companies, CPP, the Transmission Licensees and the Distribution Licensees and EHV Consumers who intend to use open access provisions would need to install the meters suitable for Availability Based Tariff (ABT) at inter-utility exchange points which would record the parameters as mentioned under Clause 5.8
- 5.2 The Auxiliary transformers in generating stations shall be provided with the following meters:
- (a) MW
 - (b) Current
 - (c) Voltage
 - (d) Active
 - (e) Energy
- 5.3 Each metering point associated with determination of energy exported or imported, between the Generating Companies, Transmission Licensees and Distribution Licensees shall be provided with both main and check meters on separate core of CT, PT. The minimum standard of accuracy for these meters shall be Accuracy class 0.2. If present metering system needs up gradation to class 0.2 it shall be completed within 6 months from effective date of this code.
- 5.4 All the Instrument Transformers used in conjunction with commercial (tariff) metering shall also be of accuracy class 0.2 except where already existing CT/PT which are

- of 0.5 class, which may continue to be used. These shall conform to the relevant IEC or IS specifications. The rating shall take into account the burdens imposed by lead wires and metering.
- 5.5 Data shall be collected from both the main and check metering schemes.
 - 5.6 Voltage failure relays shall be provided to initiate alarm on loss of one or more phases of the voltage supply to the meter.
 - 5.7 All the meters shall be tested and calibrated at least once in one year using substandard meters for this purpose. The standard meters shall be calibrated and sealed at Govt. Authorized Meter Testing House/Laboratory once in every year. Record of testing and calibration of substandard meters shall be maintained by the Transmission Licensee according to the guidelines provided in the relevant IEC/IS specifications. Records of these calibrations and tests shall be maintained for reference.
 - 5.8 In case of Inter State Transmission Lines, meters suitable for Availability Based Tariff shall be provided having the following parameters
 - (a) Net Active Energy import/ export for each 15 minute time block of the day.
 - (b) Net Reactive energy import/ export for the day above 103% of voltage.
 - (c) Net reactive energy export/ import when voltage is below 97%.
 - (d) Cumulative active energy export/ import.

- (e) Average frequency for each 15 minute time block of the day.
- (f) Provision of storage of data in non-volatile memory for atleast 10 days.

5.9 The Generating Companies, Transmission Licensees and Distribution Licensees shall formulate a procedure covering summation, collection and processing of tariff meter readings at various connection sites in their areas. Whenever necessary, these procedures can be revised.

5.10 The ownership, responsibility of maintenance and testing of these meters shall be as mutually agreed to between the Users and the Licensees.

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