

## **FREQUENTLY ASKED QUESTIONS (FAQ)**

### **1. Are Smart Meters and Power Quality (PQ) Meters the same?**

**Ans:** No. A Smart HT TOD Meter is an energy meter that does not measure power quality parameters. It is installed by MSEDCL at its own cost. In contrast, a PQ Meter is installed by the consumer to continuously monitor power quality parameters.

### **2. What are Power Quality Parameters?**

**Ans:** Key parameters include:

- Voltage short interruptions
- Voltage variations
- sag, swell, flicker
- Voltage unbalance
- Frequency variations
- Voltage individual harmonics and Total Harmonic Distortion (THD)
- Current individual harmonics and Total Demand Distortion (TDD)

### **3. Which HT consumers are required to install a Power Quality Meter?**

**Ans:** As per MERC SOP and Power Quality Regulations 2021, Clause 22.15, designated consumers must install a PQ Meter.

### **4. Who are the designated HT consumers?**

**Ans:** As defined in Clause 2.2(q) of the MERC SOP Regulations 2021, designated consumers include those engaged in processes such as: Arc Furnace, Induction Furnace, Iron & Steel, Aluminium, Textile, Paper & Pulp, Chlor-Alkali, Petrochemical, Cement, Pharmaceuticals, IT/ITES, Airports, Malls, Hotels, Banking, Railways/Metros — or as specified by the Commission — and connected at a supply voltage of 11 kV and above.

### **5. Why should consumers install a Power Quality Meter?**

**Ans:** It is mandatory under Clause 22.15 of the MERC SOP Regulations 2021 for designated consumers to install a PQ Meter.

### **6. Do consumers need to share PQ Meter data with MSEDCL?**

**Ans:** Yes. As per Clause 22.15, designated HT consumers must share recorded data with MSEDCL monthly until online communication is established. The meter manufacturer must enable continuous online data sharing via a dashboard accessible to both the consumer and MSEDCL.

**7. Who bears the cost of the PQ Meter?**

**Ans:** The designated HT consumer is responsible for the cost of PQ Meter installation, as per Clause 22.15.

**8. Can consumers procure PQ Meters from the market or only from MSEDCL?**

**Ans:** Consumers may procure PQ Meters from the market or MSEDCL, provided the meters conform to MSEDCL's latest technical specifications.

**9. Where can MSEDCL's technical specifications for PQ Meters be found?**

**Ans:** The latest specifications are available on the MSEDCL website (<https://www.mahadiscom.in/supplier/en/material-technical-specifications/>) under meter tab for easy access.

**10. Who verifies that market-procured PQ Meters meet MSEDCL specifications?**

**Ans:** The meter manufacturer must submit GTP and drawings to MSEDCL for verification and vendor approval. Approved vendors are listed on the MSEDCL website.

**11. Will MSEDCL assist with meter installation at the consumer's point of supply?**

**Ans:** Yes. MSEDCL will support the installation. The manufacturer must provide a meter box as per approved GTP and drawings and coordinate fixing arrangements with MSEDCL. CT/PT connections will be assisted by MSEDCL.

**12. Why isn't MSEDCL installing PQ Meters at its substations?**

**Ans:** MSEDCL has already installed over 4000 PQ Meters at its substations. All the remaining installations are scheduled to be completed by October 2025.

=====Thankyou=====