Application

ME Audit is a set of equipment applied for accuracy testing and verification of instrument voltage transformers ranging from 6 to 330 kV and current transformers up to 5 kA (or up to 30 kA). The set can be prepared either for laboratory or field conditions.

Rated currents:
- **PCTI-100/5(1):** 5; 10; 15; 20; 25; 30; 40; 50; 60; 75; 80; 100 A
- **PCTI-5000/5(1):** 150; 200; 250; 300; 400; 500; 600; 750; 800; 1000; 1200; 1500; 2000; 3000; 4000; 5000 A.

Standard rated voltages:
- 6/3; 6; 10/3; 15; 35/3; 35; 110/3; 220/3; 330/3 kV (other ranges can be made to order).

Test Set for testing current transformers of accuracy classes up to 0.2S rated from 5 to 5000 A

Accuracy class of the Reference Transformer: 0.05

Application

Accuracy testing and verification of CTs in accordance with the certified test procedures.

Test Set for testing instrument current transformers (6 to 30 kA) by the indirect method

Application

Accuracy testing and verification of CTs in accordance with the certified test procedures.

Scope of Supply

1. Vehicle
2. CT Test Set (accuracy class 0.05) for testing current transformers of accuracy classes up to 0.2S
3. VT Test Set (accuracy class 0.05) for testing voltage transformers of accuracy classes up to 0.2

Portable current transformers of reference class:
- PCTI-100/5 or PCTI-100/5(1), 5–100 A
- PCTI-5000/5 or PCTI-5000/5(1), 100–5000 A.

Accuracy class 0.05.

Adjustable Current Source IT5000 (up to 6000 A)

VCC Converter (converts Voltage/Current curve of the CT under test) is applied for determining ratio and angle errors of instrument current transformers (complete with Delta-T software) by the indirect method.
High-Voltage Portable Transformer Test Sets

**Single-phase**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated voltage, kV</th>
<th>Height, mm</th>
<th>Weight, kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVTS-1-110</td>
<td>110</td>
<td>350</td>
<td>4</td>
</tr>
<tr>
<td>HVTS-1-220</td>
<td>110, 220</td>
<td>350</td>
<td>4</td>
</tr>
<tr>
<td>HVTS-1-330</td>
<td>110, 220, 330</td>
<td>350</td>
<td>4</td>
</tr>
</tbody>
</table>

**Three-phase**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated voltage, kV</th>
<th>Height, mm</th>
<th>Weight, kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVTS-3-10</td>
<td>6, 10</td>
<td>450</td>
<td>8</td>
</tr>
<tr>
<td>HVTS-3-35</td>
<td>15, 35</td>
<td>450</td>
<td>8</td>
</tr>
</tbody>
</table>

**Accuracy classes** 0.1; 0.05

**Application**

- On-site testing and verification of instrument voltage (potential) transformers of accuracy classes up to 0.2
- Single-phase (rated at 110, 220, 330 kV)
- Single- and three-phase (rated at 6, 10, 35 kV)

**Scope of Supply**

1. **Comparator Energomonitor 3.1KM-P or Energomonitor 3.3T1 complete with VTCS (commutator)**
2. **CHVT-110** (-220, -330)
   - Reference device: Reference Capacitive High-Voltage Transducer of CHVT series
   - CHVT-10-2 or CHVT-35-2 with UIN-D amplifiers
3. **High-Voltage source**
   - For **VTs rated up to 100/√3 kV**: Mobile HV Source UIV-100/7.5M (generated power 7.5 kVA), Console Unit and Voltage Regulation Unit included
   - For **VTs rated up to 220/√3 kV**: Mobile HV Source UIV-150/18M (generated power 18 kVA), Console Unit and Voltage Regulation Unit included
   - For **330 kV VTs**: the adjacent primary phase of the VT under test is used as a HV source (MI 3314-2011)
4. **Burden boxes**
   - 100/√3 V, 80 VA; 100/√3 V, 200 VA
5. **Set of cables (power, control, measurement, grounding, corona-free etc.)**
6. **Personal computer, printer, software**
7. **Test procedures**
   - MI 3314-2011; MI 3050-2007

**High-Voltage Capacitive Measuring Transducer of CHVT series**

**Accuracy class** 0.1 (0.05 supplied to order)

**Application**

- Used to measure the high voltage applied to its high-voltage input by converting it into the low voltage with a certified scaling factor
- As a reference measuring instrument, is applied for testing of instrument-class VTs 6–330 kV of up to 0.2 accuracy class.

**Model**

- **HVTS-1-110** for testing VTs 110 kV
- **HVTS-1-220** for testing VTs 110, 220 kV
- **HVTS-1-330** for testing VTs 110, 220, 330 kV
- **HVTS-3-10** for testing VTs 6, 10 kV
- **HVTS-3-35** for testing VTs 15, 35 kV

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated voltage, kV</th>
<th>Height, mm</th>
<th>Weight, kg</th>
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</thead>
<tbody>
<tr>
<td>CHVT-10</td>
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<tr>
<td>CHVT-35</td>
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</tr>
<tr>
<td>CHVT-110</td>
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<td>25</td>
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<td>CHVT-220</td>
<td>110, 220</td>
<td>950</td>
<td>35</td>
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<tr>
<td>CHVT-330</td>
<td>220, 330</td>
<td>1100</td>
<td>45</td>
</tr>
</tbody>
</table>

**Contact Information**

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