

## Scope of Accreditation for Testing

**Laboratory Name** : Testing Laboratory  
 Electrical Equipment Testing Division  
 Metropolitan Electricity Authority  
**Premises** : 514 Nakhonchaisri Road, Dusit, Bangkok  
**Accreditation No.** : TESTING 0244  
**Laboratory Status** :  Permanent     Site     Temporary     Mobile

Item/Product Tested	Specific Test/ Range of Measurement	Standard/Test Method/ Technique Used
1. Power transformers (0- 3 000 kVA, single phase, three phase maximum voltage 33kV)	<ul style="list-style-type: none"> <li>- Insulation resistance test</li> <li>- Applied voltage test</li> <li>- Induced AC voltage test</li> <li>- Ratio test</li> </ul>	<ul style="list-style-type: none"> <li>- IEEE C.57.12.90 : 1999 clause 10.11</li> <li>- IEEE C.57.12.90 : 1999 clause 10.6</li> <li>- IEC 60076-3 : 2000 clause 11</li> <li>- TIS 384-2543 clause 7.11.7</li> <li>- IEEE C.57.12.90 : 1999 clause 10.7</li> <li>- IEC 60076-3 : 2000 clause 12</li> <li>- TIS 384-2543 clause 7.11.8</li> <li>- IEEE C.57.12.90 : 1999 clause 7</li> <li>- IEC 60076-1 : 2000 clause 10.3</li> <li>- TIS 384-2543 clause 7.4</li> </ul>

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1. Power transformers (0- 3 000 kVA, single phase, three phase maximum voltage 33kV) (cont.)	<ul style="list-style-type: none"> <li>- Polarity and phase-relation test</li>   <li>- No – load loss test</li>   <li>- Load loss test</li>   <li>- Winding resistance test</li> </ul>	<ul style="list-style-type: none"> <li>- IEEE C.57.12.90 : 1999 clause 6</li> <li>- IEC 60076-1 : 2000 clause 10.3</li> <li>- TIS 384-2543 clause 7.4</li>   <li>- IEEE C.57.12.90 : 1999 clause 8</li> <li>- IEC 60076-1 : 2000 clause 10.5</li> <li>- TIS 384-2543 clause 7.6</li>   <li>- IEEE C.57.12.90 : 1999 clause 9</li> <li>- IEC 60076-1 : 2000 clause 10.4</li> <li>- TIS 384-2543 clause 7.5</li>   <li>- IEEE C.57.12.90 : 1999 clause 5.3</li> <li>- IEC 60076-1 : 2000 clause 10.2</li> <li>- TIS 384-2543 clause 7.3</li> </ul>

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1. Power transformers (0- 3 000 kVA, single phase, three phase maximum voltage 33kV) (cont.)	- Temperature rise test	- IEC 60076-2 : 1993 IEC 60076-11 : 2004 clause 23 - TIS 384-2543 clause 7.10
2. Switchgear	- Contact resistance measurement  - Dielectric test	- IEC 62271-200 : 2003 clause 7.3 - IEC 62271-200 : 2003 clause 7.1

Date of Issue : 14<sup>th</sup> January 2009

Signature :

(Pairoj Sanyadechakul)

Deputy Permanent Secretary for Industry

Chairman, Ministerial Cluster

for Industrial and Entrepreneurial Promotion

Chairman of Industrial Product Standards Council

Initial Date of Issue : 14<sup>th</sup> January 2009 Page 3/3

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