

## Scope of Accreditation for Testing

Certificate No. 17T012/0503

Laboratory Name : Daihen electric Co.,Ltd.

Address : 258-259 Moo 6 Thasa-an, Bangpakong, Chachoengsao

Accreditation No. : TESTING 0485

Laboratory Status     Permanent     Site     Temporary     Mobile

Field of Tested	Specific Test	Test Method
<p>Electrical Field</p> <p>1. Power transformers : oil-immersed type transformers</p> <ul style="list-style-type: none"> <li>- 1 phase transformer with rated power 1 kVA up to and including 333 MVA and rated voltage up to and including 550 kV</li> <li>- 3 phase transformers with rated power 5 kVA up to and including 1000 MVA and rated voltage up to and including 550 kV</li> </ul>	<ul style="list-style-type: none"> <li>- winding resistance</li> <li>- voltage ratio and check of phase displacement</li>   <li>- Insulation resistance test</li>   <li>- Applied voltage test</li> <li>- Induced voltage test</li> <li>- Lightning impulse test</li> </ul>	<ul style="list-style-type: none"> <li>- TIS 384-2543 (2000)</li> <li>- IEC 60076-1-2011</li> <li>- IEC 60076-1-2000</li> <li>- IEEE Std. C57.12.90-2015</li> <li>- IEEE Std. C57.12.90-2010</li> <li>- JEC 2200-2014</li> <li>- JEC 2200-1995</li>   <li>- IEC 60076-1-2011</li> <li>- IEC 60076-1-2000</li> <li>- IEEE Std. C57.12.90-2015</li> <li>- IEEE Std. C57.12.90-2010</li> <li>- JEC 2200-2014</li>   <li>- TIS 384-2543 (2000)</li> <li>- IEC 60076-3-2013</li> <li>- IEC 60076-3-2000</li> <li>- IEEE Std. C57.12.90-2015</li> <li>- IEEE Std. C57.12.90-2010</li> <li>- JEC 2200-2014</li> <li>- JEC 2200-1995</li> </ul>

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Electrical Field (cont.) 1. Power transformers : oil-immersed type transformers - 1 phase transformer with rated power 1 kVA up to and including 333 MVA and rated voltage up to and including 550 kV - 3 phase transformers with rated power 5 kVA up to and including 1000 MVA and rated voltage up to and including 550 kV (cont.)	- Line terminal AC withstand - Switching impulse test	- IEC 60076-3 2013 - IEC 60076-3 -2000 - IEC 60076-3 -2013 - IEEE Std. C57.12.90-2010 - IEEE Std. C57.12.90-2015 - JEC 2200-2014

Issue Date : 6<sup>th</sup> February B.E. 2560 (2017)

( Signature )

(Pisit Rangaritwutikul)

Secretary-General, Thai Industrial Standards Institute