



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory,

ESİTAŞ ELEKTRİK SANAYİ VE TİCARET A. Ş.

Hilal Mah. Paşaköy Cad. No:28 Sancaktepe 34791 ISTANBUL /
TURKEY

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by **TURKAK**.

Accreditation Number : AB-0781-T

Accreditation Date : 16 April 2015

Revision Date / Number : 15 August 2019 / 02

This certificate shall remain in force until **14 August 2023**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.



G. Banu MÜDERRİSOĞLU
Secretary General

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

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Accreditation Scope

 Test TS EN ISO/IEC 17025 AB-0781-T	ESİTAŞ ELEKTRİK SANAYİ VE TİCARET A. Ş. Accreditation Nr: AB-0781-T Revision Nr: 02 Date: 16.10.2022	
	As a Testing Laboratory	
	Address: Hilal Mah. Paşaköy Cad. No:28 Sancaktepe 34791 İSTANBUL/TÜRKİYE	Phone : 0216 304 3270 Fax : 0216 304 3282 E-Mail : deney@esitas.com Website : www.esitas.com.tr

Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Instrument Transformers	Temperature-rise Test	IEC 61869-1, IEC 61869-2, IEC 61869-3 Clause 7.2.2 TS EN 61869-1, TS EN 61869-2, TS EN 61869-3 Clause 7.2.2 IEC 60044-1 Clause 7.2 TS 620 EN 60044-1 Clause 7.2 IEC 60044-2 Clause 8.1 TS 718 EN 60044-2 Clause 8.1 IEEE Std C57.13 Madde 4.6 - 11.2 - 12.2 - 13.2 AS60044-1 Clause 7.2 AS60044-2 Clause 8.1
	Power-frequency voltage withstand tests on primary terminals	IEC 61869-1, IEC 61869-2, IEC 61869-3 Clause 7.3.1 TS EN 61869-1, TS EN 61869-2, TS EN 61869-3 Clause 7.3.1 IEC 60044-1 Clause 8.2.1 TS 620 EN 60044-1 Clause 8.2.1 IEC 60044-2 Clause 9.2.1 TS 718 EN 60044-2 Clause 9.2.1 IEEE Std C57.13 Madde 4.5 - 8.5 AS60044-1 Clause 8.2.1 AS60044-2 Clause 9.2.1
	Partial Discharge Measurement	IEC 61869-1, IEC 61869-2, IEC 61869-3 Clause 7.3.2 TS EN 61869-1, TS EN 61869-2, TS EN 61869-3 Clause 7.3.2 IEC 60044-1 Clause 8.2.2 TS 620 EN 60044-1 Clause 8.2.2 IEC 60044-2 Clause 9.2.4 TS 718 EN 60044-2 Clause 9.2.4 IEEE Std C57.13 Madde 8.6 - 11.4 AS60044-1 Clause 8.2.2 AS 60044-2 Clause 9.2.4

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Instrument Transformers, continued)	Power-frequency voltage withstand tests on Secondary Terminals and Between Sections	IEC 61869-1, IEC 61869-2, IEC 61869-3 Clause 7.3.3 and Clause 7.3.4 TS EN 61869-1, TS EN 61869-2, TS EN 61869-3 Clause 7.3.3 and Clause 7.3.4 IEC 60044-1 Clause 8.3 TS 620 EN 60044-1 Clause 8.3 IEC 60044-2 Clause 9.3 TS 718 EN 60044-2 Clause 9.3 IEEE Std C57.13 Madde 4.5-8.5 AS60044-1 Clause 8.3 AS60044-2 Clause 9.3
	Inter-turn Overvoltage Test	IEC 61869-2 Clause 7.3.204 TS EN 61869-2 Clause 7.3.204 IEC 60044-1 Clause 8.4 TS 620 EN 60044-1 Clause 8.4 IEEE Std C57.13 Madde 12.3 AS60044-1 Clause 8.4
	Test for Accuracy	IEC 61869-1, IEC 61869-2, IEC 61869-3 Clause 7.3.5 TS EN 61869-1, TS EN 61869-2, TS EN 61869-3 Clause 7.3.5 IEC 60044-1 Clause 11 TS 620 EN 60044-1 Clause 11 IEC 60044-2 Clause 12 - 13 TS 718 EN 60044-2 Clause 12 - 13 IEC 60044-6 Clause 4.6 - 4.7 TS EN 60044-6 Clause 4.6 - 4.7 / IEEE Std C57.13 Madde 6.3 6.4 - 6.11 - 8.1 - 9.1 - 7.10 - 10.1 AS60044-1 Clause 11 AS60044-2 Clause 12 - 13
	Verification of Markings	IEC 61869-1, IEC 61869-2, IEC 61869-3 Clause 7.3.6 TS EN 61869-1, TS EN 61869-2, TS EN 61869-3 Clause 7.3.6 IEC 60044-1 Clause 10.1 TS 620 EN 60044-1 Clause 10.1 IEC 60044-2 Clause 11.2 TS 718 EN 60044-2 Clause 11.2 IEEE Std C57.13 Madde 8.3 AS60044-1 Clause 10.1 AS60044-2 Clause 11.2

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Instrument Transformers, continued)	Wet Test for Outdoor Type Transformers	IEC 61869-1, IEC 61869-2, IEC 61869-3 Clause 7.2.4 TS EN 61869-1, TS EN 61869-2, TS EN 61869-3 Clause 7.2.4 IEC 60044-1 Clause 7.4 TS 620 EN 60044-1 Clause 7.4 IEC 60044-2 Clause 8.4 TS 718 EN 60044-2 Clause 8.4 IEEE Std C57.13 Madde 4.5 - 11.5 AS60044-1 Clause 7.4 AS60044-2 Clause 8.4
Instrument Transformers Special Tests	Measurement of Capacitance and Dielectric Dissipation Factor	IEC 61869-1, IEC 61869-2, IEC 61869-3 Clause 7.4.3 TS EN 61869-1, TS EN 61869-2, TS EN 61869-3 Clause 7.4.3 IEC 60044-1 Clause 9.2 TS 620 EN 60044-1 Clause 9.2 IEC 60044-2 Clause 10.2 TS 718 EN 60044-2 Clause 10.2 AS60044-1 Clause 9.2 AS60044-2 Clause 10.2
Current Transformers Additional Tests	Determination of Secondary Winding Resistance	IEC 61869-2 Clause 7.3.201 TS EN 61869-2 Clause 7.3.201 IEC 60044-1 Clause 13.3.4-14.4.2 TS 620 EN 60044-1 Clause 13.3.4-14.4.2 IEC 60044-6 Clause 7.2.3 TS EN 60044-6 Clause 7.2.3 AS60044-1 Clause 13.3.4 -14.4.2
	Determination of Secondary Loop Time Constant	IEC 61869-2 Clause 7.3.202 TS EN 61869-2 Clause 7.3.202 IEC 60044-1 Clause 13.2-14.2 TS 620 EN 60044-1 Clause 13.2-14.2 IEC 60044-6 Clause 7.2.6 TS EN 60044-6 Clause 7.2.6 AS60044-1 Clause 13.3.3-13.4.2
	Test for rated knee point e.m.f and exiting current at rated knee point e.m.f	IEC 61869-2 Clause 7.3.203 TS EN 61869-2 Clause 7.3.203 IEC 60044-1 Clause 14.4.1 TS 620 EN 60044-1 Clause 14.4.1 IEEE Std C57.13 Madde 6.4.1.4 AS60044-1 Clause 14.4.1

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Current Transformers Additional Tests, continued)	Routine Test for Composite Error	IEC 61869-2 Clause 7.2.6.203 TS 620 EN 60044-1 Clause 12.6 IEC 60044-1 Clause 12.6 IEEE Std C57.13 Madde 8.2.3 AS60044-1 Clause 12.6
Insulated Bushings (Also including bushings for Air Insulated Systems, Oil Insulated Systems)	Dry power-frequency voltage withstand tests	IEC 60137 Clause 9.4 TS EN 60137 Clause 9.4
	Dry or wet power-frequency voltage withstand tests	IEC 60137 Clause 8.2 TS EN 60137 Clause 8.2
	Measurement of partial discharge	IEC 60137 Clause 9.5 TS EN 60137 Clause 9.5
	Temperature-rise Test	IEC 60137 Clause 8.8 TS EN 60137 Clause 8.8
	Verification of thermal short-time current withstand	IEC 60137 Clause 8.9 TS EN ISO 60137 Clause 8.9
	Cantilever load withstand test	IEC 60137 Clause 8.10 TS EN ISO 60137 Clause 8.10
	Visual inspection and dimensional check	IEC 60137 Clause 8.14 TS EN ISO 60137 Clause 8.14
Post Insulators (Also including Insulators with Capacitive Dividers for Voltage Indicator Systems)	Dry power-frequency withstand voltage test	IEC 60660 Clause 3.4 TS EN 60660 Clause 3.4
	Partial discharge extinction voltage test	IEC 60660 Clause 3.5 TS EN 60660 Clause 3.5
	Mechanical failing load test	IEC 60660 Clause 3.7 TS EN ISO 60660 Clause 3.7
	Test for deflection under load at normal ambient temperature conditions	IEC 60660 Clause 3.8 TS EN ISO 60660 Clause 3.8
	Test for mechanical bending strength as a function of temperature	IEC 60660 Clause 3.9 TS EN ISO 60660 Clause 3.9
	Water absorption test	IEC 60660 Clause 3.10 TS EN ISO 60660 Clause 3.10
	Temperature cycle test	IEC 60660 Clause 3.13 TS EN ISO 60660 Clause 3.13

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
(Post Insulators (Also including Insulators with Capacitive Dividers for Voltage Indicator Systems), continued)	Verification of dimensions	IEC 60660 Clause 4.2-5.2 TS EN ISO 60660 Clause 4.2-5.2

End of Scope




G. Banu MÜDERRİSOĞLU
Secretary General