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CIF RO 4311980



RENAR is EA-MLA signatory for Testing.

ACCREDITATION CERTIFICATE No. LI 1036

Romanian Accreditation Association – RENAR, being recognized as National Accreditation Body by GO 23/2009, herewith attests that the organization:

NATIONAL INSTITUTE FOR RESEARCH-DEVELOPMENT AND TESTING IN ELECTRICAL ENGINEERING - ICMET CRAIOVA

Craiova, # 118A Decebal Avenue, Dolj county

through

Low and High Voltage Testing Laboratory for Electrical Equipment

fulfills the requirements of **SR EN ISO/IEC 17025:2018** and is competent to carry on **TESTING** activities, as it is detailed in the Annex of the present accreditation certificate.

This accreditation is maintained provided that the accreditation criteria established by the Romanian Accreditation Association – RENAR are met continuously.

The present certificate includes Annex no. 1/26.11.2025 (32 pages), which is an integrated part of this certificate.

The accreditation certificate is an essential accreditation document which might be periodically revised and issued by RENAR. The most recent version of the accreditation certificate is available on the website of RENAR, www.renar.ro

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Date of renewal the accreditation: 10.10.2022

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GENERAL DIRECTOR

Alina Elena TAINA



**PRESIDENT OF THE
ACCREDITATION COUNCIL**

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The translation of this certificate was issued today, 22.12.2025.

The accreditation certificate does not exempt CABs from the obligation to obtain all approvals and authorizations required for its operation in accordance with the law.

Partial reproduction of this certificate is forbidden

Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

NATIONAL INSTITUTE FOR RESEARCH-DEVELOPMENT AND TESTING IN ELECTRICAL ENGINEERING - ICMET CRAIOVA

through **LOW AND HIGH VOLTAGE TESTING LABORATORY FOR ELECTRICAL EQUIPMENT (LJIT)**

Craiova, # 118 A Decebal Avenue, Dolj County

A. Tests performed in permanent sites

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
I. TESTS FOR HIGH VOLTAGE EQUIPMENTS			SR EN 60060-1:2011 (IEC 60060-1:2010) SR EN 60060-2:2011 (IEC 60060-2:2010) SR EN IEC 60071-1:2020 (IEC 60071-1:2019) SR EN IEC 60071-2:2023 (IEC 60071-2:2023)
1.	Lightning impulse test (LI) 1,2/50 μ s ($U_{max} = 2\ 500\ kV_{peak}$)	Oil-immersed or dry power transformers	SR EN 60076-3:2014 (IEC 60076-3:2013), clause 13 SR EN 60076-3:2014/A1:2018 (IEC 60076-3:2013/AMD1:2018) SR EN 60076-4:2003 (IEC 60076-4:2002), clauses 7, 9, 10, 11 IEC 60076-11:2018, clause 14.3.1 PT-01-IT.03
		Tap-changers	SR EN 60214-1:2015 (IEC 60214-1:2014), clauses 5.2.8.5, 5.2.8.6, 7.2.5.5, 7.2.5.6 PT-01-IT.47
		Current instrument transformers	SR EN 61869-1:2010, clauses 7.2.3, 7.4.1, 7.4.2 IEC 61869-1:2023, clauses 7.2.3, 7.2.3.3, 7.4.1 SR EN 61869-2:2013 (IEC 61869-2:2012), clauses 7.2.3 SR EN 61869-4:2014 (IEC 61869-4:2013), clause 7.2.3 SR EN 61869-6:2017 (IEC 61869-6:2016), clauses 7.2.3, 7.2.601.4, 7.4.1, 7.4.2 PT-01-IT.10
		Voltage instrument transformers	SR EN 61869-1:2010, clauses 7.2.3, 7.4.1, 7.4.2 IEC 61869-1:2023, clauses 7.2.3, 7.2.3.3, 7.4.1 SR EN 61869-3:2012 (IEC 61869-3:2011), clause 7.2.3 SR EN 61869-4:2014 (IEC 61869-4:2013), clause 7.2.3 SR EN 61869-5:2012 (IEC 61869-5:2011), clauses 7.2.3, 7.4.1, 7.4.2 SR EN 61869-6:2017 (IEC 61869-6:2016), clauses 7.2.3, 7.2.601.4, 7.4.1, 7.4.2 PT-01-IT.09
		Alternating current disconnectors	IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 SR EN IEC 62271-102:2019 (IEC 62271-102:2018), clause 7.2 SR EN IEC 62271-102:2019/A1:2022 (IEC 62271-102:2018/AMD1:2022) PT-01-IT.14



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

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		Alternating current disconnectors	IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 IEC 62271-100:2021, clause 7.2 IEC 62271-100:2021/AMD1:2024 SR EN 62271-103:2012, clause 6.2 IEC 62271-103:2021, clause 7.2 PT-01-IT.16
		AC metal-enclosed switchgear controlgear	IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 SR EN IEC 62271-200:2021 (IEC 62271-200:2021), clause 7.2 (IEC 62271-200:2021/AMD1:2024) PT-01-IT.17
		AC enclosed busbars	IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 PT-01-IT.20
		Insulated bushings	IEC 60137:2017, clauses 8.4, 9.3 SR EN 50386:2011 (EN 50386:2010) SR EN 50386:2011/A1:2014 (EN 50386:2010/A1:2013) PT-01-IT.23
		Ceramic material or glass insulators	SR EN 60383-1:2023 (IEC 60383-1:2023), clauses 12, 15 SR EN 60383-2:1996 (IEC 60383-2:1993), clause 9 SR EN 60168:1997+A1:2004+A2:2001 (IEC 60168:1994+A1:1997+A2:2000), clause 4.5 PT-01-IT.39
		Composite insulators	SR EN IEC 61109:2025 (IEC 61109:2025), clauses 9, 10.2 SR EN 61952:2008 (IEC 61952:2008), clauses 10, 11 SR EN IEC 61462:2023 (IEC 61462:2023), clause 7.2.6.2 PT-01-IT.39
		Polymeric insulators	SR EN 62217:2013 (IEC 62217:2012), clause 9.2.7.3 PT-01-IT.39
		Organic material insulators	SR EN 60660:2001 (IEC 60660:1999), clauses 3.3 and 3.6 PT-01-IT.39
		Power cables with extruded insulation, terminals and their accessories	SR IEC 60502-1:2021 (IEC 60502-1:2021), clause 17.5 SR EN IEC 60230:2018 (IEC 60230:2018) SR EN IEC 60230:2018/A1:2023 (IEC 60230:2018/AMD1:2023) SR EN 61442:2006, clause 6 IEC 61442:2023, clause 7 IEC 60502-2:2014, clause 18.2.8 IEC 60502-2:2014/AMD1:2024 IEC 60502-4:2024, clauses 9, 10 IEC 60840:2020, clauses 10.12, 12.4 IEC 60840:2020/AMD1:2023



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			PT-01-IT.38
		Metal-oxide surge arresters without gaps	SR EN 60099-4:2015 (IEC 60099-4:2014), clause 8.2.6 PT-01-IT.39
		Reactors, grounding resistors	SR EN 60076-6:2009 (IEC 60076- 6:2007), clauses 7.8.10.4, 7.8.10.5 IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 PT-01-IT.26
		Capacitive dividers, coupling capacitors, shunt capacitors	SR EN 60358-1:2013 (IEC 60358-1:2012), clause 10.1 SR EN 60871-1:2015 (IEC 60871-1:2014), clause 15.2 SR EN 60831-1:2014 (IEC 60831-1:2014), clause 15 PT-01-IT.41
		High voltage current limiting fuses	SR EN IEC 60282-1:2020 (IEC 60282-1:2020) clause 7.4.4 PT-01-IT.33
2.	Alternative applied voltage test (AV) ($U_{max} = 1000 \text{ kV}_{ef}$)	Oil-immersed or dry power transformers	SR EN 60076-3:2014 (IEC 60076-3:2013), clause 10 SR EN 60076-3:2014/A1:2018 (IEC 60076-3:2013/AMD1:2018) IEC 60076-11:2018, clause 14.2.5 PT-01-IT.02
		Tap-changers	SR EN 60214-1:2015 (IEC 60214-1:2014), clauses 5.2.8.8, 7.2.5.8 PT-01-IT.47
		Current instrument transformers	SR EN 61869-1:2010, clauses 7.2.4, 7.3.1, 7.3.3, 7.3.4 IEC 61869-1:2023, clauses 7.2.4, 7.3.1, 7.3.3, 7.3.4 SR EN 61869-2:2013 (IEC 61869-2:2012), clause 7.3.1 SR EN 61869-4:2014 (IEC 61869-4:2013), Table 10, clause 7.3.1 SR EN 61869-6:2017 (IEC 61869-6:2016), Table 10, clauses 7.2.601.3, 7.3.1, 7.3.4, 7.3.601 PT-01-IT.08
		Voltage instrument transformers	SR EN 61869-1:2010, clauses 7.2.4, 7.3.1, 7.3.3, 7.3.4 IEC 61869-1:2023, clauses 7.2.4, 7.3.1, 7.3.3, 7.3.4 SR EN 61869-3:2012 (IEC 61869-3:2011), clause 7.3.1 SR EN 61869-4:2014 (IEC 61869-4:2013), Table 10, clause 7.3.1 SR EN 61869-5:2012 (IEC 61869-5:2011), clauses 7.2.4, 7.3.1 SR EN 61869-6:2017 (IEC 61869-6:2016), Table 10, clauses 7.2.601.3, 7.3.1, 7.3.4, 7.3.601 PT-01-IT.07



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
		Alternating current disconnectors	IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 SR EN IEC 62271-102:2019 (IEC 62271-102:2018), clause 7.2 SR EN IEC 62271-102:2019/A1:2022 (IEC 62271-102:2018/AMD1:2022) PT-01-IT.13
		Alternating current circuit - breakers	IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 IEC 62271-100:2021, clause 7.2 IEC 62271-100:2021/AMD1:2024 SR EN 62271-103:2012, clause 6.2 IEC 62271-103:2021, clause 7.2 PT-01-IT.15
		AC metal enclosed switchgear and control gear	IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 SR EN IEC 62271-200:2021 (IEC 62271-200:2021), clause 7.2 (IEC 62271-200:2021/AMD1:2024) PT-01-IT.18
		AC enclosed busbars	IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 PT-01-IT.19
		Insulated bushings	IEC 60137:2017, clauses 8.2, 8.3 and 9.4, 9.6 SR EN 50386:2011 (EN 50386:2010) SR EN 50386:2011/A1:2014 (EN 50386:2010/A1:2013) PT-01-IT.22
		Ceramic material or glass insulators	SR EN IEC 60383-1:2023 (IEC 60383-1:2023), clauses 13, 15, 16 SR EN 60383-2:1996 (IEC 60383-2:1993), clauses 7, 10. SR EN 60168:1997+A1:2004+A2:2001 (IEC 60168:1994+A1:1997+A2:2000), clauses 4.7, 4.8, 4.9, 4.10 PT-01-IT.39
		Composite insulators	SR EN IEC 61109:2025 (IEC 61109:2025), clauses 9, 10.2 SR EN 61952:2008 (IEC 61952:2008), clauses 10, 11 SR EN IEC 61462:2023 (IEC 61462:2023), clauses 7.2.3, 7.2.6.3 PT-01-IT.39
		Polymeric insulators	SR EN 62217:2013 (IEC 62217:2012), clauses 9.2.3, 9.2.4, 9.2.7.4 PT-01-IT.39
		Organic material insulators	SR EN 60660:2001 (IEC 60660:1999), clauses 3.4, 5.4 PT-01-IT.39
		Power cables with extruded insulation, terminals and their accessories	SR IEC 60502-1:2021 (IEC 60502-1:2021), clause 17.4 SR EN 61442:2006, clause 4 IEC 61442:2023, clause 5



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

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			IEC 60502-2:2014, clause 18.2.9 IEC 60502-2:2014/AMD1:2024 IEC 60502-4:2023, clauses 9, 10 IEC 60840:2020, clause 12.4 IEC 60840:2020/AMD1:2023 PT-01-IT.38
		Metal-oxide surge arresters without gaps	SR EN 60099-4:2015 (IEC 60099-4:2014), clauses 8.2.8, 9 PT-01-IT.39
		Reactors, grounding resistors	SR EN 60076-6:2009 (IEC 60076- 6:2007), clause 7.8.10.2 IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 PT-01-IT.30
		Capacitive dividers, coupling capacitors, shunt capacitors	SR EN 60358-1:2013 (IEC 60358-1:2012), clauses 9.2.3, 10.2.1 SR EN 60871-1:2015 (IEC 60871-1:2014), clauses 9.2, 10, 15.1 SR EN 60831-1:2014 (IEC 60831-1:2014), clauses 9, 10 PT-01-IT.41
		High voltage current limiting fuses	SR EN IEC 60282-1:2020 (IEC 60282-1:2020), clauses 7.4.5, 7.4.6 PT-01-IT.33
3.	Induced alternative voltage test ($f_{max} = 150$ Hz)	Oil-immersed or dry power transformers, reactors	SR EN 60076-3:2014 (IEC 60076-3:2013), clauses 11, 12 SR EN 60076-3:2014/A1:2018 (IEC 60076-3:2013/AMD1:2018) IEC 60076-11:2018, clause 14.2.6 SR EN 60076-6:2009 (IEC 60076-6:2007), clause 7.8.10.3 PT-01-IT.04
4.	Switching impulse test (SI) 250 / 2500 μ s ($U_{max} = 1500$ kV _{peak})	Oil-immersed power transformers	SR EN 60076-3:2014 (IEC 60076-3:2013), clause 14 SR EN 60076-3:2014/A1:2018 (IEC 60076-3:2013/AMD1:2018) SR EN 60076-4:2003 (IEC 60076-4:2002), clauses 8, 9, 10, 11 PT-01-IT.06
		Reactors	SR EN 60076-6:2009 (IEC 60076- 6:2007), clause 7.8.10.6 PT-01-IT.06
		Tap-changers	SR EN 60214-1:2015 (IEC 60214-1:2014), clauses 5.2.8.7, 7.2.5.7 PT-01-IT.47
		Current instrument transformers	SR EN 61869-1:2010, clause 7.2.3.3 IEC 61869-1:2023, clause 7.2.3.4 SR EN 61869-2:2013 (IEC 61869-2:2012), clause 7.2.3.3 SR EN 61869-4:2014 (IEC 61869-4:2013), clause 7.2.3.3 SR EN 61869-6:2017 (IEC 61869-6:2016), clause 7.2.3



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			PT-01-IT.12
		Voltage instrument transformers	SR EN 61869-1:2010, clause 7.2.3.3 IEC 61869-1:2023, clause 7.2.3.4 SR EN 61869-3:2012 (IEC 61869-3:2011), clause 7.2.3.3 SR EN 61869-4:2014 (IEC 61869-4:2013), clause 7.2.3.3 SR EN 61869-5:2012 (IEC 61869-5:2011), clause 7.2.3.3 SR EN 61869-6:2017 (IEC 61869-6:2016), clause 7.2.3 PT-01-IT.12
		Alternating current disconnectors	IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 SR EN IEC 62271-102:2019 (IEC 62271-102:2018), clause 7.2 SR EN IEC 62271-102:2019/A1:2022 (IEC 62271-102:2018/AMD1:2022) PT-01-IT.28
		Alternating current circuit - breakers	IEC 62271-1:2017, clause 7.2 IEC 62271-1:2017/AMD1:2021 IEC 62271-100:2021, clause 7.2 IEC 62271-100:2021/AMD1:2024 SR EN 62271-103:2012, clause 6.2 IEC 62271-103:2021, clause 7.2 PT-01-IT.27
		Ceramic material or glass insulators	SR EN 60383-2:1996 (IEC 60383-2:1993), clause 11 SR EN 60168:1997+A1:2004+A2:2001 (IEC 60168:1994+A1:1997+A2:2000), clause 4.6 PT-01-IT.39
		Composite insulators	SR EN IEC 61109:2025 (IEC 61109:2025), clause 10.2 SR EN 61952:2008 (IEC 61952:2008), clause 11 PT-01-IT.39
5.	Capacitances and tan δ measurement	Power transformers	SR EN 60076-1:2012 (IEC 60076-1:2011), clauses 11.1.2.2, 11.1.4 PT-01-IT.01
		Current instrument transformers	SR EN 61869-1:2010, clause 7.4.3 IEC 61869-1:2023, clause 7.3.10 SR EN 61869-2:2013 (IEC 61869-2:2012), clause 7.4.3 PT-01-IT.32
		Voltage instrument transformers	SR EN 61869-1:2010, clause 7.4.3 IEC 61869-1:2023, clause 7.3.10 SR EN 61869-3:2012 (IEC 61869-3:2011), clause 7.4.3 SR EN 61869-5:2012 (IEC 61869-5:2011), clause 7.4.3 PT-01-IT.32
		Insulated bushings	IEC 60137:2017, clause 9.2 PT-01-IT.21



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
		Power cables with extruded insulation	IEC 60502-2:2014, clause 18.2.6 IEC 60502-2:2014/AMD1:2024 IEC 60840:2020, clause 12.4.5 IEC 60840:2020/AMD1:2023 PT-01-IT.38
		Capacitive dividers, coupling capacitors, shunt capacitors	SR EN 60358-1:2013 (IEC 60358-1:2012), clause 6.2.5, 9.2.2 SR EN 60871-1:2015 (IEC 60871-1:2014), clauses 7, 8, 14 SR EN 60831-1:2014 (IEC 60831-1:2014), clauses 7, 8, 14 PT-01-IT.30
6.	Partial discharge measurement (min.1 pC)		SR EN 60270:2003 (IEC 60270:2000) SR EN 60270:2003/A1:2016 (IEC 60270:2000/AMD1:2015)
		Oil-immersed or dry power transformers, reactors	SR EN 60076-3:2014 (IEC 60076-3:2013), clause 11.3 SR EN 60076-3:2014/A1:2018 (IEC 60076-3:2013/AMD1:2018) IEC 60076-11:2018, clauses 14.2.7, 14.4.1 SR EN 60076-6:2009 (IEC 60076-6:2007), clause 7.8.10 PT-01-IT.05
		Tap-changers	SR EN 60214-1:2015 (IEC 60214-1:2014), clauses 5.2.8.9, 7.2.5.9 PT-01-IT.47
		Current instrument transformers	SR EN 61869-1:2010, clauses 5.3.3.1, 7.3.2 IEC 61869-1:2023, clauses 5.4.3.1, 7.3.2 SR EN 61869-2:2013 (IEC 61869-2:2012) SR EN 61869-4:2014 (IEC 61869-4:2013, Table 10) SR EN 61869-6:2017 (IEC 61869-6:2016), clause 7.3.2, Table 10 PT-01-IT.11
		Voltage instrument transformers	SR EN 61869-1:2010, clauses 5.3.3.1, 7.3.2 IEC 61869-1:2023, clauses 5.4.3.1, 7.3.2 SR EN 61869-3:2012 (IEC 61869-3:2011), clause 7.3.2 SR EN 61869-4:2014 (IEC 61869-4:2013), Table 10 SR EN 61869-5:2012 (IEC 61869-5:2011), clause 7.3.2 SR EN 61869-6:2017 (IEC 61869-6:2016), clause 7.3.2, Table 10 PT-01-IT.11
		Insulated bushings	IEC 60137:2017, clauses 8.3, 9.5 PT-01-IT.24
		Organic material insulators	SR EN 60660:2001 (IEC 60660:1999), clause 3.5 PT-01-IT.39
		Power cables with extruded insulation, terminals and their accessories	IEC 60502-2:2014, clause 18.2.5 IEC 60502-2:2014/AMD1:2024 IEC 60840:2020, clause 12.4.4 IEC 60840:2020/AMD1:2023



Annex no.1 to Accreditation Certificate no. LI 1036

Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			SR EN 61442:2006, clause 7 IEC 61442:2023, clause 8 PT-01-IT.38
		Metal-oxide surge arresters without gaps	SR EN 60099-4:2015 (IEC 60099-4:2014), clauses 9.1 c), d), 9.2.1 c), 12.8.17 PT-01-IT.42
		Capacitive dividers, coupling capacitors	SR EN 60358-1:2013 (IEC 60358-1:2012), clauses 6.2.3, 9.2.4 PT-01-IT.41
7.	Direct current (DC) high voltage test ($U_{max} = 1000$ kV)	Electric cables, terminals and connections for electric cables	SR EN 60229:2009 (IEC 60229:2007), clause 3.1 SR EN 61442:2006, clause 5 IEC 61442:2023, clause 6 PT-01-IT.34
8.	Combined high voltage test (LI or SI; AC; DC)	High-voltage switchgear and controlgear	IEC 62271-1:2017, clauses 7.2, 7.2.6.3 b), 7.2.7.3, 7.2.8.3, 7.2.8.4 IEC 62271-1:2017/AMD1:2021 IEC 62271-100:2021, clause 7.2 IEC 62271-100:2021/AMD1:2024 SR EN IEC 62271-102:2019 (IEC 62271-102:2018), clause 7.2 SR EN IEC 62271-102:2019/A1:2022 (IEC 62271-102:2018/AMD1:2022) SR EN 62271-103:2012, clause 6.2 IEC 62271-103:2021, clause 7.2 PT-01-IT.35
		Early streamer emission lightning protection systems	NFC 17-102:2011 (Annex C) UNE 21186:2011 (Annex C) PT-01-IT.37
9.	Evaluation of effectiveness of the early streamer emission devices	Early streamer emission lightning protection systems	NFC 17-102:2011 (Annex C) UNE 21186:2011 (Annex C) PT-01-IT.37
10.	Errors determination test (Test for accuracy)	Current instrument transformers	SR EN 61869-1:2010, clauses 3.4, 5.6, 7.2.6, 7.3.5 IEC 61869-1:2023, clauses 5.7.2, 7.2.6.2, 7.2.6.3, 7.3.6 SR EN 61869-2:2013 (IEC 61869-2:2012), clauses 7.2.6.201, 7.2.6.203, 7.3.5.201, 7.3.5.202 SR EN 61869-4:2014 (IEC 61869-4:2013), clause 7.3.5 PT-01-IT.43
		Voltage instrument transformers	SR EN 61869-1:2010, clauses 3.4, 5.6, 7.2.6, 7.3.5 IEC 61869-1:2023, clauses 5.7.2, 7.2.6.2, 7.2.6.3, 7.3.6 SR EN 61869-3:2012 (IEC 61869-3:2011), clauses 7.2.6.301, 7.2.6.302, 7.3.5.301, 7.3.5.302 SR EN 61869-4:2014 (IEC 61869-4:2013), clause 7.3.5 SR EN 61869-5:2012 (IEC 61869-5:2011), clauses 7.2.6.501, 7.2.6.502, 7.2.6.503, 7.2.6.504, 7.3.5.501, 7.3.5.502, 7.3.5.503 PT-01-IT.44



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
II ELECTROMAGNETIC COMPATIBILITY TESTS			
II.1 EMISSIONS MEASUREMENTS			
11.	Conducted continuous radio disturbance measurement (9 ÷ 30 000) kHz		SR EN 55016-2-1:2014 (EN 55016-2-1:2014, CISPR 16-2-1:2014) SR EN 55016-2-1:2014/A1:2018 (EN 55016-2-1:2014/A1:2017, CISPR 16-2-1:2014/AMD1:2017) SR EN 55016-2-1:2014/AC:2020 (EN 55016-2-1:2014/AC:2020-09, CISPR 16-2-1:2014/COR1:2020) PT-01-CEM.01
		Lifts, escalators and moving walks	SR EN 12015:2020, clauses 6.2, 6.2.3, 6.2.2
		Railway equipment	SR EN 50121-3-2:2017 (EN 50121-3-2:2016), clause 7 SR EN 50121-3-2:2017/A1:2019 (EN 50121-3-2:2016/A1:2019) SR EN 50121-4:2017 (EN 50121-4:2016), clause 5 SR EN 50121-4:2017/A1:2019 (EN 50121-4:2016/A1:2019) SR EN 50121-5:2017 (EN 50121-5:2017), clause 5 SR EN 50121-5:2017/A1:2019 (EN 50121-5:2017/A1:2019) SR EN 50155: 2021 (SR EN 50155:2021), clause 13.4.9
		Measuring relays and protection equipment	SR EN IEC 60255-26:2025 (EN IEC 60255-26:2025, IEC 60255-26:2023), clause 5.2
		Road traffic signal systems	SR EN 50293:2013 (EN 50293:2012), clause 7
		Industrial, scientific and medical equipment	SR EN IEC 55011:2025 (EN IEC 55011:2025, CISPR 11:2024), clause 8.2
		Household appliances, electric tools and similar apparatus	SR EN IEC 55014-1:2021 (EN IEC 55014-1:2021, CISPR 14-1:2020), clause 5
		Electrical lighting equipment	SR EN IEC 55015: 2019 (EN IEC 55015:2019, CISPR 15:2018), clause 8 SR EN IEC 55015: 2019/A11:2020 (EN IEC 55015:2019/A11:2020)
		Multimedia equipment	SR EN 55032:2015 (EN 55032:2015, CISPR 32:2015), clauses A3, 6.3 SR EN 55032:2015/AC:2016 (EN 55032:2015/AC:2016-07, CISPR 32:2015/COR1:2016) SR EN 55032:2015/A11:2020 (EN 55032:2015/A11:2020) SR EN 55032:2015/A1:2021 (EN 55032:2015/A1:2021)
		High-voltage switchgear and controlgear	IEC 62271-1:2017, clause 7.9.1.2 IEC 62271-1:2017/AMD1:2021



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
		Electrical equipment used in residential, commercial and light-industrial environments	SR EN IEC 61000-6-3:2021 (EN IEC 61000-6-3:2021, IEC 61000-6-3:2020), clause 7
		Electrical equipment used in industrial environments	SR EN 61000-6-4:2019 (EN IEC 61000-6-4: 2019) IEC 61000-6-4:2018, clause 9
		Low voltage switch mode power supplies	SR EN 61204-3:2019 (EN 61204-3:2018, IEC 61204-3: 2016), clause 6.3
		Electrical equipment for measurement, control and laboratory use	SR EN IEC 61326-1: 2021 (EN IEC 61326-1:2021, IEC 61326-1:2020), clause 7
		Adjustable speed electrical power drive systems	SR EN IEC 61800-3:2023 (EN IEC 61800-3: 2023, IEC 61800-3:2022), clause 6.3.1.2 SR EN IEC 61800-3:2023/AC:2025 (EN IEC 61800-3:2023/AC:2025-04 IEC 61800-3:2022/COR1:2025)
		Telecommunication network equipment	ETSI EN 300 386 V2.2.1 (2022-09), clauses 6.1, 6.2
		Radio equipment	ETSI EN 301 489-1 V2.2.3 (2019-11), clauses 8.3, 8.4
		Medical electrical equipment	SR EN 60601-1-2:2016 (EN 60601-1-2: 2015, IEC 60601-1-2: 2014), clause 7 SR EN 60601-1-2:2016/A1:2021 (EN 60601-1-2:2015/A1:2021, IEC 60601-1-2:2014/ AMD1: 2020)
		Equipment and communication systems for signalling on low-voltage electrical installations	SR EN 50065-1:2011 (EN 50065-1:2011), clause 7.2
		Low-voltage switchgear and controlgear assemblies	SR EN IEC 61439-1:2021 (EN IEC 61439-1: 2021, IEC 61439-1:2020), clause J.10.12.3.2 SR EN IEC 61439-1:2021/AC:2022 (EN IEC 61439-1:2021/AC:2022-01, IEC 61439-1:2020/ COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (EN IEC 61439-1:2021/AC:2023-11, IEC 61439-1:2020/ COR2:2023)
		Electrical and electromechanical subsystems and equipment intended for military equipment use	MIL-STD-461G:2015, Method CE 102
12.	Radio interference voltage measurement (500 kHz, 1000 kHz)		<p>CISPR TR 18-2:2017, clause 4.5 NEMA 107 (NEMA HV 80036-2016 (R2023)) PT-01-IT.31</p> <p>High-voltage insulators SR EN IEC 60437:2024 (IEC 60437:2023)</p> <p>Ceramic material or glass insulators SR EN IEC 60383-1:2023 (IEC 60383-1:2023), clause 14 SR EN 60383-2:1996 (IEC 60383-2:1993) SR EN 60168:1997+A1:2004+A2:2001 (IEC 60168:1994+A1:1997+A2:2000), clause 6.1.2</p> <p>Composite insulators SR EN IEC 61109:2025 (IEC 61109:2025), clause 10.2</p> <p>Overhead lines fittings SR EN 61284:2000 (IEC 61284:1997), clause 14</p>



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
		Insulated bushings	IEC 60137:2017, clause 8.7.1
		Metal-oxide surge arresters without gaps	IEC 60099-4:2014, clause 8.14
		Line traps	IEC 60353:1989, clause 11
		High-voltage switchgear and controlgear	IEC 62271-1:2017, clauses 7.3, 7.9.1.1 IEC 62271-1:2017/AMD1:2021
		Alternating-current circuit-breakers	IEC 62271-100:2021, clause 7.3 IEC 62271-100:2021/AMD1:2024
		Alternating current disconnectors	IEC 62271-102:2018, clause 7.3 IEC 62271-102:2018/AMD1:2022
		Current instrument transformers	SR EN 61869-1:2010, clauses 6.11.2, 7.2.5.1 IEC 61869-1:2023, clauses 6.11.5, 7.2.5.1 SR EN 61869-2:2013 (IEC 61869-2:2012), Table 10 SR EN 61869-4:2014 (IEC 61869-4:2013), Tabel 10
		Voltage instrument transformers	SR EN 61869-1:2010, clauses 6.11.2, 7.2.5.1 IEC 61869-1:2023, clauses 6.11.5, 7.2.5.1 SR EN 61869-3:2012 (IEC 61869-3:2011), clause 7.2.5 SR EN 61869-4:2014 (IEC 61869-4:2013), Table 10 SR EN 61869-5:2012 (IEC 61869-5:2011)
13.	Harmonic current emissions measurement (50 ÷ 2 000) Hz		SR EN IEC 61000-3-2:2019 (EN IEC 61000-3-2:2019, IEC 61000-3-2:2018) SR EN IEC 61000-3-2:2019/A1:2021 (EN IEC 61000-3-2:2019/A1:2021, IEC 61000-3-2:2018/AMD1:2020) SR EN IEC 61000-3-2:2019/A2:2024 (EN IEC 61000-3-2:2019/A2:2024, IEC 61000-3-2:2018/AMD2:2024) PT-01-CEM.03
	Lifts, escalators and moving walks	SR EN 12015:2020, clause 6.4	
	Electrical equipment used in residential, commercial and light-industrial environments	SR EN IEC 61000-6-3:2021 (EN IEC 61000-6-3:2021, IEC 61000-6-3:2020), clause 7	
	Low voltage switch mode power supplies	SR EN IEC 61204-3:2019 (EN IEC 61204-3:2018), IEC 61204-3:2016, clause 6.2.2	
	Electrical equipment for measurement, control and laboratory use	SR EN IEC 61326-1:2021 (EN IEC 61326-1:2021, IEC 61326-1:2020), clause 7	
	Adjustable speed electrical power drive systems	SR EN IEC 61800-3:2023 (EN IEC 61800-3:2023, IEC 61800-3:2022), clause 6.3.1 SR EN IEC 61800-3:2023/AC:2025 (EN IEC 61800-3:2023/AC:2025-04, IEC 61800-3:2022/COR1:2025)	
	Radio equipment	ETSI EN 301 489-1 V2.2.3 (2019-11), clause 8.5	
	Medical electrical equipment	SR EN 60601-1-2:2016 (EN 60601-1-2:2015, IEC 60601-1-2:2014), clause 7.2.1	



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			SR EN 60601-1-2:2016/A1:2021 (EN 60601-1-2:2015/A1:2021, IEC 60601-1-2:2014/AMD1:2020)
14.	Voltage fluctuations and flicker measurement (P_{It} , P_{st} , $d(t)$, d_c , d_{max})	<p>Lifts, escalators and moving walks</p> <p>Electrical equipment used in residential, commercial and light-industrial environments</p> <p>Low voltage switch mode power supplies</p> <p>Electrical equipment for measurement, control and laboratory use</p> <p>Adjustable speed electrical power drive systems</p> <p>Radio equipment</p> <p>Medical electrical equipment</p>	<p>SR EN 61000-3-3:2014 (EN 61000-3-3:2013, IEC 61000-3-3:2013)</p> <p>SR EN 61000-3-3:2014/A1:2019 (EN 61000-3-3:2013/A1:2019, IEC 61000-3-3:2013/AMD1:2017)</p> <p>SR EN 61000-3-3:2014/A2:2021 (EN 61000-3-3:2013/A2:2021, IEC 61000-3-3:2013/AMD2:2021)</p> <p>SR EN 61000-3-3:2014/A2:2021/AC:2022 (EN 61000-3-3:2013/A2:2021/AC:2022-01, IEC 61000-3-3:2013/AMD2:2021/COR1:2022)</p> <p>PT-01-CEM.04</p> <p>SR EN 12015:2020, clause 6.3</p> <p>SR EN IEC 61000-6-3:2021 (EN IEC 61000-6-3:2021, IEC 61000-6-3:2020), clause 7</p> <p>SR EN IEC 61204-3:2019 (EN IEC 61204-3: 2018, IEC 61204-3:2016), clause 6.2.3</p> <p>SR EN IEC 61326-1:2021 (EN IEC 61326-1: 2021, IEC 61326-1:2020), clause 7</p> <p>SR EN IEC 61800-3:2023 (EN IEC 61800-3: 2023, IEC 61800-3:2022), clause 6.3.2</p> <p>SR EN IEC 61800-3:2023/AC:2025 (EN IEC 61800-3:2023/AC:2025-04, IEC 61800-3:2022/COR1:2025)</p> <p>ETSI EN 301 489-1 V2.2.3 (2019-11), clause 8.6</p> <p>SR EN 60601-1-2:2016 (EN 60601-1-2:2015, IEC 60601-1-2:2014), clause 7.2.2</p> <p>SR EN 60601-1-2:2016/A1:2021 (EN 60601-1-2:2015/A1:2021, IEC 60601-1-2:2014/AMD1:2020)</p>
15.	Radiated disturbance measurement (0,009 ÷ 1 000) MHz	<p>Lifts, escalators and moving walks</p> <p>Railway equipment</p>	<p>SR EN 55016-2-3:2017 (EN 55016-2-3:2017, CISPR 16-2-3:2016)</p> <p>SR EN 55016-2-3:2017/A1:2019 (EN 55016-2-3:2017/A1:2019, CISPR 16-2-3:2016/AMD1:2019)</p> <p>SR EN 55016-2-3:2017/A2:2023 (EN 55016-2-3:2017/A2:2023, CISPR 16-2-3:2016/AMD2:2023)</p> <p>PT-01-CEM.05</p> <p>SR EN 12015:2020, clause 6.1</p> <p>SR EN 50121-3-2:2017 (EN 50121-3-2:2016), clause 7</p> <p>SR EN 50121-3-2:2017/A1:2019 (EN 50121-3-2:2016/A1:2019)</p> <p>SR EN 50121-4:2017 (EN 50121-4:2016), clause 5</p>



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			SR EN 50121-4:2017/A1:2019 (EN 50121-4:2016/A1:2019) SR EN 50121-5:2017 (EN 50121-5:2017), clause 5 SR EN 50121-5:2017/A1:2019 (EN 50121-5:2017/A1:2019)
		Measuring relays and protection equipment	SR EN IEC 60255-26:2025 (EN IEC 60255-26:2025, IEC 60255-26:2023), clause 5.1
		Road traffic signal systems	SR EN 50293:2013 (EN 50293:2012), clause 7
		Industrial, scientific and medical equipment	SR EN IEC 55011:2025 (EN IEC 55011:2025, CISPR 11:2024), clauses 8.3, 8.4
		Household appliances, electric tools and similar apparatus	SR EN IEC 55014-1:2021 (EN IEC 55014-1:2021, CISPR 14-1:2020), clause 5
		Electrical lighting equipment	SR EN IEC 55015:2019 (EN IEC 55015:2019, CISPR 15:2018), clauses 4.5 and 9 SR EN IEC 55015:2019/A11:2020 (EN IEC 55015:2019/A11:2020)
		Multimedia equipment	SR EN 55032:2015 (EN 55032:2015, CISPR 32:2015), clause A2, 6.3 SR EN 55032:2015/AC:2016 (EN 55032:2015/AC:2016-07, CISPR 32:2015/COR1:2016) SR EN 55032:2015/A11:2020 (EN 55032:2015/A11:2020) SR EN 55032:2015/A1:2021 (EN 55032:2015/A1:2021)
		High-voltage switchgear and controlgear	IEC 62271-1:2017, clause 7.9.1.2 IEC 62271-1:2017/AMD1:2021
		Electrical equipment used in residential, commercial and light-industrial environments	SR EN IEC 61000-6-3:2021 (EN IEC 61000-6-3:2021, IEC 61000-6-3:2020), clause 7
		Electrical equipment used in industrial environments	SR EN 61000-6-4:2019 (EN IEC 61000-6-4:2019) IEC 61000-6-4:2018, clause 9
		Low voltage switch mode power supplies	SR EN IEC 61204-3:2019 (EN IEC 61204-3: 2018, IEC 61204-3:2016), clause 6.4
		Electrical equipment for measurement, control and laboratory use	SR EN IEC 61326-1:2021 (EN IEC 61326-1:2021, IEC 61326-1:2020), clause 7
		Adjustable speed electrical power drive systems	SR EN IEC 61800-3:2023 (EN IEC 61800-3: 2023, IEC 61800-3:2022), clause 6.3.1.3 SR EN IEC 61800-3:2023/AC:2025 (EN IEC 61800-3:2023/AC:2025-04, IEC 61800-3:2022/COR1:2025)
		Telecommunication network equipment	ETSI EN 300 386 V2.2.1 (2022-09), clause 6.5
		Radio equipment	ETSI EN 301 489-1 V2.2.3 (2019-11), clause 8.2
		Medical electrical equipment	SR EN 60601-1-2:2016 (EN 60601-1-2:2015, IEC 60601-1-2:2014), clause 7



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			SR EN 60601-1-2:2016/A1:2021 (EN 60601-1-2:2015/A1:2021, IEC 60601-1-2:2014/AMD1: 2020)
		Equipment and communication systems for signalling on low-voltage electrical installations	SR EN 50065-1: 2011 (EN 50065-1:2011), clause 7.3
		Low-voltage switchgear and controlgear assemblies	SR EN IEC 61439-1:2021 (EN IEC 61439-1: 2021, IEC 61439-1:2020), clause J.10.12.3.2 SR EN IEC 61439-1:2021/AC:2022 (EN IEC 61439-1:2021/AC:2022-01, IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (EN IEC 61439-1:2021/AC:2023-11, IEC 61439-1:2020/COR2:2023)
		Electrical and electromechanical subsystems and equipment intended for military equipment use	MIL-STD-461G: 2015, Methods RE 102, RE 103
16.	Electromagnetic fields measurement H:(5 ÷ 32 000) Hz E:(5 ÷ 32 000) Hz and (80 ÷ 3000) MHz		SR EN 50413:2020 (EN 50413:2019), clause 5.2 PT-01-CEM.07
		Industrial environments: substations, energy distribution plants, industrial halls etc.	Directive 2013/35/EU (GD 520:2016) SR EN 62110:2010 (EN 62110:2009, IEC 62110:2009), clause 4 SR EN 62110:2010/AC:2015 (EN 62110:2009/AC:2015, IEC 62110:2009/COR1:2015) SR EN 50499:2020 (EN 50499:2019), clause 8.9
		Residential environments: office buildings, firm residences, etc.	OMS 1193:2006 IEC 61566:1997, clause 6.2
17.	Measuring the effectiveness of electromagnetic shielding (9 kHz ÷ 6 GHz)		PT-01-CEM.08
		Electromagnetic shielded enclosures	IEEE 299:2006
		Anechoic chambers	SR EN 50147-1:1999 (EN 50147-1:1996)
		Durable rigid wall relocatable structures	ASTM E1851-21
		Planar materials	ASTM D4935-18
II.2 IMMUNITY TESTS			
18.	Electrical fast transient/burst immunity test (0,2 ÷ 4) kV		SR EN 61000-4-4:2013 (EN 61000-4-4:2012, IEC 61000-4-4:2012) PT-01-CEM.11
		Lifts, escalators and moving walks	SR EN 12016:2013, clause 4
		Railway equipment	SR EN 50121-3-2:2017 (EN 50121-3-2: 2016), clause 8 SR EN 50121-3-2:2017/A1:2019 (EN 50121-3-2:2016/A1:2019) SR EN 50121-4:2017 (EN 50121-4: 2016), clause 6 SR EN 50121-4:2017/A1:2019 (EN 50121-4: 2016/A1:2019) SR EN 50121-5:2017 (EN 50121-5: 2017), clause 6



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			SR EN 50121-5:2017/A1:2019 (EN 50121-5:2017/A1:2019) SR EN 50155:2021 (EN 50155:2021), clause 13.4.9
		Fire, intruder, social alarm systems	SR EN 50130-4:2012 (EN 50130-4: 2011), clause 12 SR EN 50130-4:2012/A1:2015 (EN 50130-4:2011/A1:2014)
		Measuring relays and protection equipment	SR EN IEC 60255-26:2025 (EN 60255-26:2025, IEC 60255-26:2023), clause 6.2
		Road traffic signal systems	SR EN 50293:2013 (EN 50293:2012), clause 3
		Household appliances, electric tools and similar apparatus	SR EN IEC 55014-2:2021 (EN IEC 55014-2: 2021, CISPR 14-2:2020), clause 5.2
		Multimedia equipment	SR EN 55035:2017 (EN 55035:2017, CISPR 35:2016), clauses 4.2.4, 2.5 in Table 2, 3.3 in Table 3, 4.5 in Table 4 SR EN 55035:2017/A11:2020 (EN 55035:2017/A11:2020)
		High-voltage switchgear and controlgear	IEC 62271-1:2017, clause 7.9.2.2 IEC 62271-1:2017/AMD1:2021
		Electrical equipment used in residential, commercial and light-industrial environments	SR EN IEC 61000-6-1:2019 (EN IEC 61000-6-1: 2019), IEC 61000-6-1:2016, clause 9
		Electrical equipment used in industrial environments	SR EN IEC 61000-6-2:2019 (EN IEC 61000-6-2: 2019), IEC 61000-6-2:2016, clause 9
		Low voltage switch mode power supplies	SR EN IEC 61204-3:2019 (EN IEC 61204-3: 2018, IEC 61204-3:2016), clause 7.2
		Electrical equipment for measurement, control and laboratory use	SR EN IEC 61326-1:2021 (EN IEC 61326-1: 2021, IEC 61326-1:2020), clause 6.2
		Equipment for general lighting purposes	SR EN IEC 61547:2023 (EN IEC 61547:2023, IEC 61547:2020), clause 5.5
		Adjustable speed electrical power drive systems	SR EN IEC 61800-3:2023 (EN IEC 61800-3: 2023, IEC 61800-3:2022), clause 5.3 SR EN IEC 61800-3:2023/AC:2025 (EN IEC 61800-3:2023/AC:2025-04, IEC 61800-3:2022/COR1:2025)
		Telecommunication network equipment	ETSI EN 300 386 V2.2.1 (2022-09), clause 5.2
		Radio equipment	ETSI EN 301 489-1 V2.2.3 (2019-11), clause 9.4
		Medical electrical equipment	SR EN 60601-1-2:2016 (EN 60601-1-2: 2015, IEC 60601-1-2:2014), clause 8 SR EN 60601-1-2:2016/A1:2021 (EN 60601-1-2:2015/A1:2021, IEC 60601-1-2:2014/ AMD1: 2020)
		Equipment and communication systems for signalling on low-voltage electrical installations	SR EN 50065-2-1:2003 (EN 50065-2-1:2003), clause 7 SR EN 50065-2-1:2003/A1:2006 (EN 50065-2-1:2003/A1:2005) SR EN 50065-2-1:2003/AC:2015 (EN 50065-2-1:2003/corrigendum Aug.2003) SR EN 50065-2-2:2003 (EN 50065-2-2:2003),



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			clause 7 SR EN 50065-2-2:2003/A1:2006 (EN 50065-2-2:2003/A1:2005) SR EN 50065-2-2:2003/AC:2015 (EN 50065-2-2:2003/corrigendum Aug. 2003, EN 50065-2-2:2003/A1:2005/corrigendum Oct. 2006) SR EN 50065-2-3:2024 (EN 50065-2-3:2024), clause 7
		Low-voltage switchgear and controlgear assemblies	SR EN IEC 61439-1:2021 (EN IEC 61439-1: 2021, IEC 61439-1:2020), clause J.10.12.2.2 SR EN IEC 61439-1:2021/AC:2022 (EN IEC 61439-1:2021/AC:2022-01, IEC 61439-1:2020/ COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (EN IEC 61439-1:2021/AC:2023-11, IEC 61439-1:2020/ COR2:2023)
19.	Surge immunity test (0,2 ÷ 4) kV; (80 ÷ 2000) A		SR EN 61000-4-5:2015 (EN 61000-4-5:2014, IEC 61000-4-5:2014) SR EN 61000-4-5:2015/A1:2018 (EN 61000-4-5:2014/A1:2017, IEC 61000-4-5:2014/AMD1:2017) PT-01-CEM.12
		Lifts, escalators and moving walks	SR EN 12016: 2013, clause 4
		Railway equipment	SR EN 50121-3-2:2017 (EN 50121-3-2:2016), clause 8 SR EN 50121-3-2:2017/A1:2019 (EN 50121-3-2:2016/A1:2019) SR EN 50121-4:2017 (EN 50121-4:2016), clause 6 SR EN 50121-4:2017/A1:2019 (EN 50121-4:2016/A1:2019) SR EN 50121-5:2017 (EN 50121-5:2017), clause 6 SR EN 50121-5:2017/A1:2019 (EN 50121-5:2017/A1:2019) SR EN 50155:2021 (EN 50155:2021), clause 13.4.9
		Fire, intruder, social alarm systems	SR EN 50130-4:2012 (EN 50130-4:2011), clause 13 SR EN 50130-4:2012/A1:2015 (EN 50130-4:2011/A1:2014)
		Measuring relays and protection equipment	SR EN IEC 60255-26:2025 (EN 60255-26:2025, IEC 60255-26:2023), clause 6.2
		Road traffic signal systems	SR EN 50293:2013 (EN 50293:2012), clause 6.2
		Household appliances, electric tools and similar apparatus	SR EN IEC 55014-2:2021 (EN IEC 55014-2: 2021, CISPR 14-2:2020), clause 5.6
		Multimedia equipment	SR EN 55035:2017 (EN 55035:2017, CISPR 35:2016), clauses 4.2.5, 3.2 in Table 3, 4.4 in Table 4 SR EN 55035:2017/A11:2020 (EN 55035:2017/ A11:2020)



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
		Electrical equipment used in residential, commercial and light-industrial environments	SR EN IEC 61000-6-1:2019 (EN IEC 61000-6-1: 2019), IEC 61000-6-1:2016, clause 9
		Electrical equipment used in industrial environments	SR EN IEC 61000-6-2:2019 (EN IEC 61000-6-2: 2019), IEC 61000-6-2:2016, clause 9
		Low voltage switch mode power supplies	SR EN IEC 61204-3:2019 (EN IEC 61204-3: 2018, IEC 61204-3:2016), clause 7.2
		Electrical equipment for measurement, control and laboratory use	SR EN IEC 61326-1:2021 (EN IEC 61326-1: 2021, IEC 61326-1:2020), clause 6.2
		Equipment for general lighting purposes	SR EN IEC 61547:2023 (EN IEC 61547:2023, IEC 61547:2020), clause 5.7
		Telecommunication network equipment	ETSI EN 300 386 V2.2.1 (2022-09), clause 5.3
		Radio equipment	ETSI EN 301 489-1 V2.2.3 (2019-11), clause 9.8
		Medical electrical equipment	SR EN 60601-1-2:2016 (EN 60601-1-2:2015, IEC 60601-1-2:2014), clause 8 SR EN 60601-1-2:2016/A1:2021 (EN 60601-1-2:2015/A1:2021, IEC 60601-1-2:2014/ AMD1: 2020)
		Equipment and communication systems for signalling on low-voltage electrical installations	SR EN 50065-2-1:2003 (EN 50065-2-1:2003), clause 7 SR EN 50065-2-1:2003/A1:2006 (EN 50065-2-1:2003/A1:2005) SR EN 50065-2-1:2003/AC:2015 (EN 50065-2-1:2003/corrigendum Aug. 2003) SR EN 50065-2-2:2003 (EN 50065-2-2:2003), clause 7 SR EN 50065-2-2:2003/A1:2006 (EN 50065-2-2:2003/A1:2005) SR EN 50065-2-2:2003/AC:2015 (EN 50065-2-2:2003/corrigendum Aug. 2003, EN 50065-2-2:2003/A1:2005/corrigendum Oct. 2006) SR EN 50065-2-3:2024 (EN 50065-2-3:2024), clause 7
		Low-voltage switchgear and controlgear assemblies	SR EN IEC 61439-1:2021 (EN IEC 61439-1: 2021, IEC 61439-1:2020), clause J.10.12.2.2 SR EN IEC 61439-1:2021/AC:2022 (EN IEC 61439-1:2021/AC:2022-01, IEC 61439-1:2020/ COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (EN IEC 61439-1:2021/AC:2023-11, IEC 61439-1:2020/ COR2:2023)
20.	Electrostatic discharge immunity test (0,2 ÷ 25) kV		SR EN IEC 61000-4-2:2025 (EN IEC 61000-4-2: 2025, IEC 61000-4-2:2025) PT-01-CEM.13
		Lifts, escalators and moving walks	SR EN 12016: 2013, clause 4
		Railway equipment	SR EN 50121-3-2:2017 (EN 50121-3-2:2016), clause 8 SR EN 50121-3-2:2017/A1:2019 (EN 50121-3-2:2016/A1:2019)



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			SR EN 50121-4:2017 (EN 50121-4:2016), clause 6 SR EN 50121-4:2017/A1:2019 (EN 50121-4:2016/A1:2019) SR EN 50121-5:2017 (EN 50121-5:2017), clause 6 SR EN 50121-5:2017/A1:2019 (EN 50121-5:2017/A1:2019) SR EN 50155:2021 (EN 50155:2021), clause 13.4.9
		Fire, intruder, social alarm systems	SR EN 50130-4:2012 (EN 50130-4:2011), clause 9 SR EN 50130-4:2012/A1:2015 (EN 50130-4:2011/A1:2014)
		Measuring relays and protection equipment	SR EN IEC 60255-26:2025 (EN 60255-26:2025, IEC 60255-26:2023), clause 6.1
		Road traffic signal systems	SR EN 50293:2013 (EN 50293:2012), clause 3
		Household appliances, electric tools and similar apparatus	SR EN IEC 55014-2:2021 (EN IEC 55014-2: 2021, CISPR 14-2:2020), clause 5.1
		Multimedia equipment	SR EN 55035:2017 (EN 55035:2017, CISPR 35:2016), clauses 4.2.1, 1.4 in Table 1 SR EN 55035:2017/A11:2020 (EN 55035:2017/A11:2020)
		Electrical equipment used in residential, commercial and light-industrial environments	SR EN IEC 61000-6-1:2019 (EN IEC 61000-6-1: 2019), IEC 61000-6-1:2016, clause 9
		Electrical equipment used in industrial environments	SR EN IEC 61000-6-2:2019 (EN IEC 61000-6-2: 2019), IEC 61000-6-2:2016, clause 9
		Low voltage switch mode power supplies	SR EN IEC 61204-3:2019 (EN IEC 61204-3: 2018, IEC 61204-3:2016), clause 7.2
		Electrical equipment for measurement, control and laboratory use	SR EN IEC 61326-1:2021 (EN IEC 61326-1: 2021, IEC 61326-1:2020), clause 6.2
		Equipment for general lighting purposes	SR EN IEC 61547:2023 (EN IEC 61547:2023, IEC 61547: 2020), clause 5.2
		Adjustable speed electrical power drive systems	SR EN IEC 61800-3:2023 (EN IEC 61800-3: 2023, IEC 61800-3:2022), clause 5.3 SR EN IEC 61800-3:2023/AC:2025 (EN IEC 61800-3:2023/AC:2025-04, IEC 61800-3:2022/COR1:2025)
		Telecommunication network equipment	ETSI EN 300 386 V2.2.1 (2022-09), clause 5.1
		Radio equipment	ETSI EN 301 489-1 V2.2.3 (2019-11), clause 9.3
		Medical electrical equipment	SR EN 60601-1-2:2016 (EN 60601-1-2: 2015, IEC 60601-1-2:2014), clause 8 SR EN 60601-1-2:2016/A1:2021 (EN 60601-1-2:2015/A1:2021, IEC 60601-1-2:2014/ AMD1:2020)
		Equipment and communication systems for signalling on low-voltage electrical installations	SR EN 50065-2-1:2003 (EN 50065-2-1:2003), clause 7 SR EN 50065-2-1:2003/A1:2006 (EN 50065-2-1:2003/A1:2005)



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			SR EN 50065-2-1:2003/AC:2015 (EN 50065-2-1:2003/corrigendum Aug. 2003) SR EN 50065-2-2:2003 (EN 50065-2-2:2003), clause 7 SR EN 50065-2-2:2003/A1:2006 (EN 50065-2-2:2003/A1:2005) SR EN 50065-2-2:2003/AC:2015 (EN 50065-2-2:2003/corrigendum Aug.2003, EN 50065-2-2:2003/A1:2005/corrigendum Oct. 2006) SR EN 50065-2-3:2024 (EN 50065-2-3:2024), clause 7
		Low-voltage switchgear and controlgear assemblies	SR EN IEC 61439-1:2021 (EN IEC 61439-1: 2021, IEC 61439-1:2020), clause J.10.12.2.2 SR EN IEC 61439-1:2021/AC:2022 (EN IEC 61439-1:2021/AC:2022-01, IEC 61439-1:2020/ COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (EN IEC 61439-1:2021/AC:2023-11, IEC 61439-1:2020/ COR2:2023)
21.	Voltage dips, short interruptions and voltage variations immunity tests (0 ÷ 100 %) U _N ; U _N = 250 V max.		SR EN IEC 61000-4-11+AC:2020 (EN IEC 61000-4-11:2020, EN IEC 61000-4-11:2020/AC:2020-06, IEC 61000-4-11:2020, IEC 61000-4-11:2020/COR1:2020) SR EN IEC 61000-4-11+AC:2020/AC:2022 (EN IEC 61000-4-11:2020/AC:2022-10, IEC 61000-4-11:2020/COR2:2022) PT-01-CEM.14
		Lifts, escalators and moving walks	SR EN 12016:2013, clause 4
		Fire, intruder, social alarm systems	SR EN 50130-4:2012 (EN 50130-4:2011), clause 8 SR EN 50130-4:2012/A1:2015 (EN 50130-4:2011/A1:2014)
		Measuring relays and protection equipment	SR EN IEC 60255-26:2025 (EN 60255-26:2025, IEC 60255-26:2023), clause 6.2
		Road traffic signal systems	SR EN 50293:2013 (EN 50293:2012), clause 3
		Household appliances, electric tools and similar apparatus	SR EN IEC 55014-2:2021 (EN IEC 55014-2: 2021, CISPR 14-2:2020), clause 5.7
		Multimedia equipment	SR EN 55035:2017 (EN 55035:2017, CISPR 35:2016), clauses 4.2.6, 4.2 and 4.3 in Table 4 SR EN 55035:2017/A11:2020 (EN 55035:2017/ A11:2020)
		Electrical equipment used in residential, commercial and light-industrial environments	SR EN IEC 61000-6-1:2019 (EN IEC 61000-6-1: 2019), IEC 61000-6-1:2016, clause 9
		Electrical equipment used in industrial environments	SR EN IEC 61000-6-2:2019 (EN IEC 61000-6-2: 2019), IEC 61000-6-2:2016, clause 9
		Low voltage switch mode power supplies	SR EN IEC 61204-3:2019 (EN IEC 61204-3:2018, IEC 61204-3:2016), clause 7.2



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
		Electrical equipment for measurement, control and laboratory use	SR EN IEC 61326-1:2021 (EN IEC 61326-1: 2021, IEC 61326-1:2020), clause 6.2
		Equipment for general lighting purposes	SR EN IEC 61547:2023 (EN IEC 61547:2023, IEC 61547:2020), clause 5.8
		Adjustable speed electrical power drive systems	SR EN IEC 61800-3:2023 (EN IEC 61800-3: 2023, IEC 61800-3:2022), clause 5.3 SR EN IEC 61800-3:2023/AC:2025 (EN IEC 61800-3:2023/AC:2025-04, IEC 61800-3:2022/COR1:2025)
		High-voltage switchgear and controlgear	IEC 62271-1:2017, clause 7.9.3.3 IEC 62271-1:2017/AMD1:2021
		Telecommunication network equipment	ETSI EN 300 386 V2.2.1 (2022-09), clause 5.6
		Radio equipment	ETSI EN 301 489-1 V2.2.3 (2019-11), clause 9.7
		Medical electrical equipment	SR EN 60601-1-2:2016 (EN 60601-1-2: 2015, IEC 60601-1-2:2014), clause 8 SR EN 60601-1-2:2016/A1:2021 (EN 60601-1-2:2015/A1:2021, IEC 60601-1-2:2014/AMD1:2020)
		Equipment and communication systems for signalling on low-voltage electrical installations	SR EN 50065-2-1:2003 (EN 50065-2-1:2003), clause 7 SR EN 50065-2-1:2003/A1:2006 (EN 50065-2-1:2003/A1:2005) SR EN 50065-2-1:2003/AC:2015 (EN 50065-2-1:2003/corrigendum Aug. 2003) SR EN 50065-2-2:2003 (EN 50065-2-2:2003), clause 7 SR EN 50065-2-2:2003/A1:2006 (EN 50065-2-2:2003/A1:2005) SR EN 50065-2-2:2003/AC:2015 (EN 50065-2-2:2003/corrigendum Aug. 2003, EN 50065-2-2:2003/A1:2005/corrigendum Oct. 2006) SR EN 50065-2-3:2024 (EN 50065-2-3:2024), clause 7
		Low-voltage switchgear and controlgear assemblies	SR EN IEC 61439-1:2021 (EN IEC 61439-1: 2021, IEC 61439-1:2020), clause J.10.12.2.2 SR EN IEC 61439-1:2021/AC:2022 (EN IEC 61439-1:2021/AC:2022-01, IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (EN IEC 61439-1:2021/AC:2023-11, IEC 61439-1:2020/COR2:2023)
22.	Radiated radio-frequency electromagnetic field immunity test (80 ÷ 1000) MHz		SR EN IEC 61000-4-3:2020, (EN IEC 61000-4-3:2020, IEC 61000-4-3:2020) SR EN IEC 61000-4-20:2022 (EN IEC 61000-4-20:2022, IEC 61000-4-20:2022) PT-01-CEM.16
		Lifts, escalators and moving walks	SR EN 12016:2013, clause 7
		Railway equipment	SR EN 50121-1:2017 (EN 50121-1:2017), clause 3



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			SR EN 50121-3-2:2017 (EN 50121-3-2:2016), clause 8 SR EN 50121-3-2:2017/A1:2019 (EN 50121-3-2:2016/A1:2019) SR EN 50121-4:2017 (EN 50121-4:2016), clause 6 SR EN 50121-4:2017/A1:2019 (EN 50121-4:2016/A1:2019) SR EN 50121-5:2017 (EN 50121-5:2017), clause 6 SR EN 50121-5:2017/A1:2019 (EN 50121-5:2017/A1:2019)
		Fire, intruder, social alarm systems	SR EN 50130-4:2012 (EN 50130-4:2011), clause 10 SR EN 50130-4:2012/A1:2015 (EN 50130-4:2011/A1:2014)
		Measuring relays and protection equipment	SR EN IEC 60255-26:2025 (EN 60255-26:2025, IEC 60255-26:2023), clause 6.2
		Road traffic signal systems	SR EN 50293:2013 (EN 50293:2012), clause 3
		Household appliances, electric tools and similar apparatus	SR EN IEC 55014-2:2021 (EN IEC 55014-2: 2021, CISPR 14-2:2020), clause 5.5
		Multimedia equipment	SR EN 55035:2017 (EN 55035:2017, CISPR 35:2016), clauses 4.2.2.2, 1.2 in Table 1 SR EN 55035:2017/A11:2020 (EN 55035:2017/ A11:2020)
		Electrical equipment used in residential, commercial and light-industrial environments	SR EN IEC 61000-6-1:2019 (EN IEC 61000-6-1:2019), IEC 61000-6-1:2016, clause 9
		Electrical equipment used in industrial environments	SR EN IEC 61000-6-2:2019 (EN IEC 61000-6-2: 2019), IEC 61000-6-2:2016, clause 9
		Low voltage switch mode power supplies	SR EN IEC 61204-3:2019 (EN IEC 61204-3: 2018, IEC 61204-3:2016), clause 7.2
		Electrical equipment for measurement, control and laboratory use	SR EN IEC 61326-1:2021 (EN IEC 61326-1: 2021, IEC 61326-1:2020), clause 6.2
		Equipment for general lighting purposes	SR EN IEC 61547:2023 (EN IEC 61547:2023, IEC 61547:2020), clause 5.3
		Adjustable speed electrical power drive systems	SR EN IEC 61800-3:2023 (EN IEC 61800-3:2023, IEC 61800-3:2022), clause 5.3 SR EN IEC 61800-3:2023/AC:2025 (EN IEC 61800-3:2023/AC:2025-04, IEC 61800-3:2022/COR1:2025)
		Telecommunication network equipment	ETSI EN 300 386 V2.2.1 (2022-09), clause 5.5
		Radio equipment	ETSI EN 301 489-1 V2.2.3 (2019-11), clause 9.2
		Medical electrical equipment	SR EN 60601-1-2:2016 (EN 60601-1-2:2015, IEC 60601-1-2:2014), clause 8 SR EN 60601-1-2:2016/A1:2021 (EN 60601-1-2: 2015/A1:2021, IEC 60601-1-2:2014/ AMD1:2020)



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
		Equipment and communication systems for signalling on low-voltage electrical installations	SR EN 50065-2-1:2003 (EN 50065-2-1:2003), clause 7 SR EN 50065-2-1:2003/A1:2006 (EN 50065-2-1:2003/A1:2005) SR EN 50065-2-1:2003/AC:2015 (EN 50065-2-1:2003/corrigendum Aug. 2003) SR EN 50065-2-2:2003 (EN 50065-2-2:2003), clause 7 SR EN 50065-2-2:2003/A1:2006 (EN 50065-2-2:2003/A1:2005) SR EN 50065-2-2:2003/AC:2015 (EN 50065-2-2:2003/corrigendum Aug. 2003) EN 50065-2-2:2003/A1:2005/corrigendum Oct. 2006) SR EN 50065-2-3:2024 (EN 50065-2-3:2024), clause 7
		Low-voltage switchgear and controlgear assemblies	SR EN IEC 61439-1:2021 (EN IEC 61439-1: 2021, IEC 61439-1:2020), clause J.10.12.2.2 SR EN IEC 61439-1:2021/AC:2022 (EN IEC 61439-1:2021/AC:2022-01, IEC 61439-1:2020/ COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (EN IEC 61439-1:2021/AC:2023-11, IEC 61439-1:2020/ COR2:2023)
		Electrical and electromechanical subsystems and equipment intended for military equipment use	MIL-STD-461G:2015, Method RS103
23.	Immunity to conducted disturbances, induced by radio-frequency fields (0,15 ÷ 80) MHz		SR EN IEC 61000-4-6:2023 (EN IEC 61000-4-6: 2023, IEC 61000-4-6:2023) PT-01-CEM.17
		Lifts, escalators and moving walks	SR EN 12016:2013, clause 7
		Railway equipment	SR EN 50121-1:2017 (EN 50121-1:2017), clause 3 SR EN 50121-3-2:2017 (EN 50121-3-2:2016), clause 8 SR EN 50121-3-2:2017/A1:2019 (EN 50121-3-2:2016/A1:2019) SR EN 50121-4:2017 (EN 50121-4:2016), clause 6 SR EN 50121-4:2017/A1:2019 (EN 50121-4:2016/A1:2019) SR EN 50121-5:2017 (EN 50121-5:2017), clause 6 SR EN 50121-5:2017/A1:2019 (EN 50121-5:2017/A1:2019) SR EN 50155:2021 (EN 50155:2021), clause 13.4.9
		Fire, intruder, social alarm systems	SR EN 50130-4:2012 (EN 50130-4:2011), clause 11 SR EN 50130-4:2012/A1:2015 (EN 50130-4:2011/A1:2014)



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
		Measuring relays and protection equipment	SR EN IEC 60255-26:2025 (EN 60255-26:2025, IEC 60255-26:2023), clause 6.2
		Road traffic signal systems	SR EN 50293:2013 (EN 50293:2012), clause 3
		Household appliances, electric tools and similar apparatus	SR EN IEC 55014-2:2021 (EN IEC 55014-2: 2021, CISPR 14-2:2020), clause 5.4
		Multimedia equipment	SR EN 55035:2017 (EN 55035:2017, CISPR 35:2016), clauses 4.2.2.3, 2.1 in Table 2, 3.1 in Table 3, 4.1 in Table 4 SR EN 55035:2017/A11:2020 (EN 55035:2017/A11:2020)
		Electrical equipment used in residential, commercial and light-industrial environments	SR EN IEC 61000-6-1:2019 (EN IEC 61000-6-1:2019), IEC 61000-6-1:2016, clause 9
		Electrical equipment used in industrial environments	SR EN IEC 61000-6-2:2019 (EN IEC 61000-6-2:2019), IEC 61000-6-2:2016, clause 9
		Low voltage switch mode power supplies	SR EN IEC 61204-3:2019 (EN IEC 61204-3:2018, IEC 61204-3:2016), clause 7.2
		Electrical equipment for measurement, control and laboratory use	SR EN IEC 61326-1:2021 (EN IEC 61326-1: 2021, IEC 61326-1:2020), clause 6.2
		Equipment for general lighting purposes	SR EN IEC 61547:2023 (EN IEC 61547:2023, IEC 61547:2020), clause 5.6
		Adjustable speed electrical power drive systems	SR EN IEC 61800-3:2023 (EN IEC 61800-3: 2023, IEC 61800-3:2022), clause 5.3 SR EN IEC 61800-3:2023/AC:2025 (EN IEC 61800-3:2023/AC:2025-04, IEC 61800-3:2022/COR1:2025)
		Telecommunication network equipment	ETSI EN 300 386 V2.2.1 (2022-09), clause 5.4
		Radio equipment	ETSI EN 301 489-1 V2.2.3 (2019-11), clause 9.5
		Medical electrical equipment	SR EN 60601-1-2:2016 (EN 60601-1-2:2015, IEC 60601-1-2:2014), clause 8 SR EN 60601-1-2:2016/A1:2021 (EN 60601-1-2:2015/A1:2021, IEC 60601-1-2:2014/ AMD1: 2020)
		Equipment and communication systems for signalling on low-voltage electrical installations	SR EN 50065-2-1:2003 (EN 50065-2-1: 2003), clause 7 SR EN 50065-2-1:2003/A1:2006 (EN 50065-2-1:2003/A1:2005) SR EN 50065-2-1:2003/AC:2015 (EN 50065-2-1:2003/corrigendum Aug.2003) SR EN 50065-2-2: 2003 (EN 50065-2-2:2003), clause 7 SR EN 50065-2-2:2003/A1:2006 (EN 50065-2-2:2003/A1:2005) SR EN 50065-2-2:2003/AC:2015 (EN 50065-2-2:2003/corrigendum Aug. 2003, EN 50065-2-2:2003/A1:2005/corrigendum Oct. 2006) SR EN 50065-2-3:2024 (EN 50065-2-3:2024), clause 7
		Low-voltage switchgear and controlgear assemblies	SR EN IEC 61439-1:2021 (EN IEC 61439-1: 2021, IEC 61439-1:2020), clause J.10.12.2.2



Annex no.1 to Accreditation Certificate no. LI 1036

Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			SR EN IEC 61439-1:2021/AC:2022 (EN IEC 61439-1:2021/AC:2022-01, IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (EN IEC 61439-1:2021/AC:2023-11, IEC 61439-1:2020/COR2:2023)
III. LOW VOLTAGE EQUIPMENTS TESTS			
24.	Dielectric strength test		<p>PT-01-JT.01</p> <p>SR EN IEC 61439-1:2021, clause 10.9 (IEC 61439-1:2020, clause 10.9) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023) SR EN IEC 62208:2023, clause 9.11</p> <p>SR EN IEC 60947-1:2021, clauses 8.2.3.1, 8.2.3.2, 8.2.3.3 IEC 60947-1:2020, clauses 8.2.3.1, 8.2.3.2, 8.2.3.3 SR EN IEC 60947-2:2025, clauses 9.3.4.3, 9.3.4.6, 9.3.5.4, 9.3.6.4, 9.3.7.6, 9.3.8.4, 9.3.8.8, 9.3.9.6 (IEC 60947-2:2024, clauses 9.3.4.3, 9.3.4.6, 9.3.5.4, 9.3.6.4, 9.3.7.6, 9.3.8.4, 9.3.8.8, 9.3.9.6) IEC 60947-3:2020, clause 8.2.3</p> <p>IEC 62271-1:2017, clauses 7.2.11, 8.3.4 IEC 62271-1:2017/AMD1:2021 IEC 62271-100:2021, clause 7.2.11 IEC 62271-100:2021/AMD1:2024 IEC 62271-102:2018, clause 7.2.11 IEC 62271-102:2018/AMD1:2022 IEC 62271-103:2021, clause 7.2 IEC 62271-200:2021, clause 7.2.11 IEC 62271-200:2021/AMD1:2024 IEC 62271-202:2022, clauses 7.2.11, 7.2.102</p> <p>SR EN 50155:2021 (EN 50155:2021), clauses 13.4.7, 13.4.7.3</p> <p>SR EN IEC 60598-1:2025, clause 12.2.3 (IEC 60598-1:2024, clause 12.2.3)</p>
25.	Protective earth circuit test		<p>PT-01-JT.02</p> <p>SR EN IEC 61439-1:2021, clause 10.5.2 (IEC 61439-1:2020, clause 10.5.2) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023) SR EN IEC 62208:2023, clause 9.12</p> <p>IEC 62271-1:2017, clause 7.4.3 IEC 62271-1:2017/AMD1:2021 IEC 62271-103:2021, clause 7.4 IEC 62271-200:2021, clause 7.4.3 IEC 62271-200:2021/AMD1:2024</p>



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
		Luminaires	IEC 62271-202:2022, clause 7.4.3 SR EN IEC 60598-1:2025, clause 9.2.3 (IEC 60598-1:2024, clause 9.2.3)
26.	Measurement of clearances and creepage distances	Low-voltage switchgear and controlgear assemblies	PT-01-JT.03 SR EN IEC 61439-1:2021, clause 10.4 (IEC 61439-1:2020, clause 10.4) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023)
		Low-voltage switchgear and controlgear	SR EN IEC 60947-1:2021, clauses 8.2.3.4, 8.2.3.5 IEC 60947-1:2020, clauses 8.2.3.4, 8.2.3.5 SR EN IEC 60947-2:2025, clauses 8.2.3.4, 8.2.3.5 (IEC 60947-2:2024, clauses 8.2.3.4, 8.2.3.5)
		Luminaires	SR EN IEC 60598-1:2025, clause 13 (IEC 60598-1:2024, clause 13)
27.	Insulation resistance measurement	Low-voltage switchgear and controlgear assemblies	PT-01-JT.04 SR EN IEC 61439-1:2021, clause 11.9 (IEC 61439-1:2020, clause 11.9) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023)
		Railway equipment	SR EN 50155:2021 (EN 50155:2021), clauses 13.4.7, 13.4.7.2
		Luminaires	SR EN IEC 60598-1:2025, clause 12.2.2 (IEC 60598-1:2024, clause 12.2.2)
IV. FIRE HAZARD TESTING			
28.	Glowing/hot-wire based test	Low-voltage switchgear and controlgear assemblies	SR EN IEC 60695-2-10:2022 (IEC 60695-2-10:2021) SR EN IEC 60695-2-11:2022 (IEC 60695-2-11:2021) PT-01-SFM.03 SR EN IEC 61439-1:2021, clause 10.2.3.2 (IEC 61439-1:2020, clause 10.2.3.2) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023)
		Low-voltage switchgear and controlgear	SR EN IEC 60947-1:2021, clause 9.2.2.1 IEC 60947-1:2020, clause 9.2.2.1
		Empty enclosures for low-voltage switchgear and controlgear assemblies	SR EN IEC 62208:2023, clause 9.10.3 (IEC 62208:2023, clause 9.10.3)
		Luminaires	SR EN IEC 60598-1:2025, clause 15.3.3 (IEC 60598-1:2024, clause 15.3.3)
		Low-voltage fuses	SR EN IEC 60269-1:2025, clause 9.11.2.2 (IEC 60269-1:2024, clause 9.11.2.2)
		Circuit-breakers	SR EN IEC 60947-2:2025, clause 9.2 (IEC 60947-2:2024, clause 9.2)



Annex no.1 to Accreditation Certificate no. LI 1036

Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
29.	50 W horizontal and vertical flame test methods		SR EN 60695-11-10:2014 (IEC 60695-11-10:2013) PT-01-SFM.04
Insulators of organic material		SR EN 60660:2001, clause 3.12 (IEC 60660:1999, clause 3.12)	
Polymeric insulators		SR EN 62217:2013, clause 9.3.4 (IEC 62217:2012, clause 9.3.4)	
Composite insulators for overhead lines		SR EN IEC 61109:2025, clause 9 (IEC 61109:2025, clause 9)	
Low-voltage switchgear and controlgear		SR EN IEC 60947-1:2020, clause 9.2.2.2 a) IEC 60947-1:2020, clause 9.2.2.2 a) SR EN IEC 60947-2:2025, clause 9.2 (IEC 60947-2:2024, clause 9.2)	
Composite line post insulators		SR EN 61952:2008, clauses 9.1, 10.1 (IEC 61952:2008, clauses 9.1, 10.1)	
V. ENVIRONMENTAL TESTS			
30.	Damp heat, steady state Humidity _{max} 99 % a) conditioning b) testing (before, during and after conditioning)		SR EN 60068-2-78:2013 (IEC 60068-2-78: 2012) PT-01-SFM.06
Low-voltage fuses		SR EN IEC 60269-1:2025, clause 9.2.2.3.2 (IEC 60269-1:2024, clause 9.2.2.3.2)	
Early streamer emission lightning protection systems		NF C 17-102:2011, Annex C 3.3.1	
31.	Cold test – test Ab T _{min} - 40 ° C a) conditioning b) testing (before, during and after conditioning)		SR EN 60068-2-1:2007, clause 5.2 and clause 6 (IEC 60068-2-1:2007, clause 5.2 and clause 6) PT-01-SFM.07
High-voltage switchgear and controlgear		IEC 62271-1:2017, clause 7.10.4.2 IEC 62271-1:2017/AMD1:2021	
Electronic taximeters		SR EN 50148:2001, clause 10.9 OIML R21 clause A 5.4.1	
32.	Dry heat test - test Bb T _{max} : + 180 ° C a) conditioning b) testing (before, during and after conditioning)		SR EN 60068-2-2:2008, clause 5.2, 6 (IEC 60068-2-2:2007, clause 5.2, 6) PT-01-SFM.08
Low-voltage switchgear and controlgear assemblies		SR EN IEC 61439-1:2021, clause 10.2.3.1 (IEC 61439-1:2020, clause 10.2.3.1) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023)	
High-voltage switchgear and controlgear		IEC 62271-1:2017, clause 7.10.4.3 IEC 62271-1:2017/AMD1:2021	
Electronic taximeters		SR EN 50148:2001, clause 10.7 OIML R21:2007, clause A 5.4.1	
33.	Change of temperature test- test Na and test Nb T = (-40 +180) ° C a) conditioning b) testing (before, during and after conditioning)		SR EN IEC 60068-2-14:2023, clauses 7 and 8 (IEC 60068-2-14:2023, clauses 7 and 8) PT-01-SFM.09
Metal-oxide surge arresters		SR EN 60099-4:2015, clause 8.12.3.1 (IEC 60099-4:2014, clause 8.12.3.1)	
Insulators of organic material		SR EN 60660:2001, clause 3.13 (IEC 60660:1999, clause 3.13)	
34.			SR EN 60068-2-30:2006 (IEC 60068-2-30: 2005)



Annex no.1 to Accreditation Certificate no. LI 1036

Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
	Damp heat, cyclic (12 h + 12 h cycle) - test Db Humidity _{max} 99 % a) conditioning b) testing (before, during and after conditioning)	High-voltage switchgear and controlgear Low-voltage switchgear and controlgear assemblies Empty enclosures for low-voltage switchgear and controlgear assemblies Electronic taximeters	PT-01-SFM.10 IEC 62271-1:2017, clause 7.10.4.4 IEC 62271-1:2017/AMD1:2021 SR EN IEC 61439-1:2021, clause 10.2.2 (IEC 61439-1:2020, clause 10.2.2) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023) SR EN IEC 62208:2023, clause 9.14 (IEC 62208:2023, clause 9.14) SR EN 50148:2001, clause 10.8 OIML R21:2007 clause A 5.4.2
35.	Salt mist test a) conditioning b) testing (before, during and after conditioning)	Empty enclosures for low-voltage switchgear and controlgear assemblies Low-voltage switchgear and controlgear assemblies Metal-oxide surge arresters	SR EN IEC 60068-2-11:2021 (IEC 60068-2-11:2021) PT-01-SFM.11 SR EN IEC 62208:2023, clause 9.14 (IEC 62208:2023, clause 9.14) SR EN IEC 61439-1:2021, clause 10.2.2 (IEC 61439-1:2020, clause 10.2.2) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023) SR EN 60099-4:2015, clause 8.12.3.2 (IEC 60099-4:2014, clause 8.12.3.2)
36.	Verification of degrees of protection provided by enclosures (max. IP 65)	Luminaires High voltage switchgear and controlgear	SR EN 60529:1995+A1:2003, IEC 60529:2013 PT-01-IT.36 SR EN IEC 60598-1:2025, clause 11 (IEC 60598-1:2024, clause 11) IEC 62271-1:2017, clause 7.7.1 IEC 62271-1:2017/AMD1:2021
37.	Tracking and erosion test. 1000 h salt fog test	Polymeric insulators	SR EN 62217:2013, clause 9.3.3 (IEC 62217:2012, clause 9.3.3) PT-01-IT.46
38.	Determination of hardness	Plastics, rubber, ebonite Composite line post insulators Polymeric insulators	PT-01-SFM.14 SR EN ISO 868:2003 SR EN 61952:2008, clauses 9.1,10.1 (IEC 61952:2008, clauses 9.1, 10.1) SR EN 62217:2013, clause 9.3.1 (IEC 62217:2012, clause 9.3.1)
39.	Sulphur dioxide test in a humid atmosphere	Early streamer emission lightning protection systems	SR EN ISO 22479:2022 PT-01-SFM.15 NFC 17-102:2011, Annex C, clause 3.3.2 UNE 21186/2011, Annex C, clause 3.3.2
40.	Salt mist test, cyclic test	Early streamer emission lightning protection systems	SR EN 60068-2-52:2018 (IEC 60068-2-52:2017) PT-01-SFM.16 NF C 17-102:2011, Annex C, clause 3.3.1 UNE 21186:2011, Annex C, clause 3.3.1



Annex no.1 to Accreditation Certificate no. LI 1036

Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
41.	UV testing		SR EN ISO 4892-2:2013 PT-01-SFM.17
		Polymeric insulators	SR EN 62217:2013, clause 9.3.2 (IEC 62217:2012, clause 9.3.2)
		Composite suspension and tension insulators	SR EN IEC 61109:2025, clause 9 (IEC 61109:2025, clause 9)
		Composite line post insulators	SR EN 61952:2008, clauses 9.1, 10.1 (IEC 61952:2008, clauses 9.1, 10.1)
VI. MECHANICAL TESTS			
42.	Mechanical tensile test		PT-01-MEC.01
		Composite suspension and tension insulators	SR EN IEC 61109:2025 (IEC 61109:2025), clauses 9.4.2.2; 9.4.2.3; 10.3; 11.4
		Composite line post insulators	SR EN 61952:2008 (IEC 61952:2008), clause 10.4.2
		Post insulators of ceramic material or glass	SR EN 60168:1997+A1:2004+A2:2001 (IEC 60168:1994+A1:1997+A2:2000), clause 5.2.6
		Insulators of organic material	SR EN 60660:2001 (IEC 60660:1999), clause 3.7.2.c)
		Instrument transformers (Current transformers)	SR EN 61869-1:2010, clause 7.4.5 IEC 61869-1:2023, clause 7.2.10
		Instrument transformers (Inductive voltage transformers)	SR EN 61869-1:2010, clause 7.4.5 IEC 61869-1:2023, clause 7.2.10
		Instrument transformers (Capacitor voltage transformers)	SR EN 61869-1:2010, clause 7.4.5 IEC 61869-1:2023, clause 7.2.10
		Hollow pressurized and unpressurized ceramic or glass insulators	IEC 62155:2003, clause 7.2.4
		Composite station post insulators for substations	IEC 62231:2006, clauses 8.3.3; 9.3.2; 10.4.2
		Fittings for overhead lines	SR EN 61284:2000, clauses 11.3.1; 11.4.1; 11.4.2; 11.4.3; 11.5.1; 11.5.2; 11.6.1; 11.6.2; 11.7
		Ceramic or glass insulators for a.c. overhead lines	SR EN IEC 60383-1:2023 (IEC 60383-1:2023), clauses 19.2; 19.4; 35.1; 35.2
Insulator strings and sets for overhead lines	SR EN 61467:2009 (IEC 61467:2008), clause 10.5		
43.	Mechanical bending test		PT-01-MEC.02
		Post insulators of ceramic material or glass	SR EN 60168:1997+A1:2004+A2:2001 (IEC 60168:1994+A1:1997+A2+2000), clauses 5.2.4; 5.3; 5.9
		Insulators of organic material	SR EN 60660: 2001 (IEC 60660:1999), clauses 3.7.2.a; 3.8; 3.9; 3.13
		Instrument transformers (Current transformers)	SR EN 61869-1:2010, clause 7.4.5 IEC 61869-1:2023, clause 7.2.10
		Instrument transformers (Inductive voltage transformers)	SR EN 61869-1:2010, clause 7.4.5 IEC 61869-1:2023, clause 7.2.10
		Instrument transformers (Capacitor voltage transformers)	SR EN 61869-1:2010, clause 7.4.5 IEC 61869-1:2023, clause 7.2.10
		Hollow pressurized and unpressurized ceramic or glass insulators	IEC 62155:2003, clause 7.2.2



Annex no.1 to Accreditation Certificate no. LI 1036

Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
		Pressurized and unpressurized composite hollow insulators	IEC 61462:2023, clause 8.5
		Composite station post insulators for substations	IEC 62231:2006, clauses 8.3.1; 9.3.1; 10.4.1
		Insulated bushings	IEC 60137:2017, clause 8.10
		Polymeric insulators	SR EN 62217:2013 (IEC 62217:2012), clause 9
		Metal-oxide surge arresters without gaps	SR EN 60099-4:2015 (IEC 60099-4:2014), clause 8.11
		Composite line post insulators	SR EN 61952:2008 (IEC 61952:2008), clauses 10.4.1; 11.2.1
		Ceramic or glass insulators for a.c. overhead lines	SR EN IEC 60383-1:2023 (IEC 60383-1:2023), clauses 19.1; 19.3; 19.4; 32.3; 33.1; 33.2; 34.3
44.	Mechanical torsion test		PT-01-MEC.03
		Post insulators of ceramic material or glass	SR EN 60168:1997+A1:2004+A2:2001 (IEC 60168:1994+A1:1997+A2:2000), clause 5.2.5
		Insulators of organic material	SR EN 60660:2001 (IEC 60660:1999), clause 3.7.2.b
		Hollow pressurized and unpressurized ceramic and glass insulators	IEC 62155:2003, clause 7.2.3
		Composite station post insulators for substations	IEC 62231:2006, clause 8.3.2
		Fittings for overhead lines	SR EN 61284:2000, clause 11.4.5
45.	Mechanical compression test		PT-01-MEC.04
		Post insulators of ceramic material or glass	SR EN 60168:1997+A1:2004+A2:2001 (IEC 60168:1994+A1:1997+A2:2000), clause 5.2.7
		Insulators of organic material	SR EN 60660:2001 (IEC 60660:1999), clause 3.7.2.c)
		Hollow pressurized and unpressurized ceramic and glass insulators	IEC 62155:2003, clause 7.2.5
		Composite station post insulators for substations	IEC 62231:2006, clause 9.3.3
46.	Tensile – temperature test		PT-01-MEC.05
		Composite suspension and tension insulators	SR EN IEC 61109:2025 (IEC 61109:2025), clause 9.3.3
		Ceramic or glass insulators for a.c. overhead lines	SR EN IEC 60383-1:2023 (IEC 60383-1:2023), clauses 20; 35.1
47.	Bending – temperature test		PT-01-MEC.05
		Polymeric insulators	SR EN 62217:2013 (IEC 62217:2012), clause 9.2.7.2
		Composite line post insulators	SR EN 61952:2008 (IEC 61952:2008), clause 10.3
		Composite station post insulators for substations	IEC 62231:2006, clause 8.2.4
48.	Test for mechanical bending strength as a function of temperature	Insulators of organic material	SR EN 60660:2001 (IEC 60660:1999), clause 3.9 PT-01-MEC.06
49.	Sudden load release pre-stressing	Composite suspension and tension insulators	SR EN IEC 61109:2025 (IEC 61109:2025), clause 9.3.2 PT-01-MEC.06
50.			PT-01-MEC.07



Annex no.1 to Accreditation Certificate no. LI 1036

Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
	Visual examination, marking, inspection of dimensional characteristics	Composite suspension and tension insulators	SR EN IEC 61109:2025 (IEC 61109:2025), clause 11.2
		Composite line post insulators	SR EN 61952:2008, clauses 12.2; 13.2
		Ceramic or glass insulators for a.c. overhead lines	SR EN IEC 60383-1:2023 (IEC 60383-1:2023), clause 17
		Post insulators of ceramic material or glass	SR EN 60168:1997+A1:2004+A2:2001 (IEC 60168:1994+A1:1997+A2:2000), clause 5.1
		Insulators of organic material	SR EN 60660:2001 (IEC 60660:1999), clause 4.2
		Composite station post insulators for substations	IEC 62231:2006, clauses 9.1; 10.2
		Insulated bushings	IEC 60137:2017, clauses 8.14; 9.11
		Fittings for overhead lines	SR EN 61284:2000, clauses 7; 8
		Early streamer emission lightning protection systems	NFC 17-102:2011, clauses C.3.1.1; C.3.1.2; C.3.2
		Polymeric insulators	SR EN 62217: 2013 (IEC 62217:2012), clause 9.2.7.2
		Low-voltage switchgear and controlgear assemblies	SR EN IEC 61439-1:2021, clause 6.1, clause 10.2.7 (IEC 61439-1:2020, clause 6.1 and clause 10.2.7) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023) SR EN IEC 62208:2023, clause 9.3
		Low-voltage switchgear and controlgear	SR EN IEC 60947-1:2020, clause 6.2 IEC 60947-1:2020, clause 6.2 SR EN IEC 60947-2:2025, clause 6.2 (IEC 60947-2:2024, clause 6.2) IEC 60947-3:2020, clause 6.2
		Luminaires	SR EN IEC 60598-1:2025, clause 6.2 (IEC 60598-1:2024, clause 6.2)
		Current instrument transformers	IEC 61869-1:2023, clause 7.3.7 IEC 61869-2:2012 IEC 61869-4:2013, clauses 6.13 and 7.3.6 IEC 61869-5:2011, clauses 6.13 and 7.3.6
Voltage instrument transformers	IEC 61869-1:2023, clause 7.3.7 IEC 61869-3:2011 IEC 61869-4:2013, clauses 6.13 and 7.3.6 IEC 61869-5:2011, clauses 6.13 and 7.3.6		
51.	Mechanical impact test		PT-01-MEC.08
		Low-voltage switchgear and controlgear assemblies	SR EN IEC 61439-1:2021, clause 10.2.6 (IEC 61439-1:2020, clause 10.2.6) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023) IEC 62262:2002+A1:2021, clause 6 SR EN IEC 62208:2023, clause 9.8 SR EN 60068-2-75:2015, clause 5
		High-voltage switchgear and controlgear	IEC 62271-1:2017, clause 7.7.2 IEC 62271-1:2017/AMD1:2021 IEC 62271-100:2021, clause 7.7.2 IEC 62271-100:2021/AMD1:2024



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
			IEC 62271-102:2018, clause 7.7 IEC 62271-102:2018/AMD1:2022 IEC 62271-103:2021, clause 7.7 IEC 62271-200:2021, clause 7.7.2 IEC 62271-200:2021/AMD1:2024 IEC 62271-201:2014, clause 6.7.2 IEC 62271-202:2022, clauses 7.101.3, 7.7 IEC 62262:2002 IEC 62262:2002/AMD1:2021 SR EN 60068-2-75:2015, clause 5
52.	Tightness test of the liquid-filled electromagnetic unit	Instrument transformers (Capacitor voltage transformers)	SR EN 61869-5:2012 (IEC 61869 -5:2011), clause 7.2.8.501 PT-01-MEC.09
53.	Operating and mechanical endurance tests	Alternating current disconnectors and earthing switches	IEC 62271-102:2018, clause 7.102 IEC 62271-102:2018/AMD1:2022 PT-01-MEC.10
54.	Water immersion pre-stressing test	Polymeric insulators	SR EN 62217:2013 (IEC 62217:2012), clause 9.2.6 PT-01-MEC.11
55.	Specific tests for empty enclosures and assemblies for low-voltage switchgear and controlgear	Empty enclosures and assemblies for low-voltage switchgear and controlgear	SR EN IEC 61439-1:2021, clause 10.2.5 (IEC 61439-1:2020, clause 10.2.5) SR EN IEC 61439-1:2021/AC:2022 (IEC 61439-1:2020/COR1:2021) SR EN IEC 61439-1:2021/AC:2023 (IEC 61439-1:2020/COR2:2023) SR EN IEC 62208:2023, clauses 9.4; 9.5; 9.7 PT-01-MEC.12

B. Tests performed in situ

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
56.	Electromagnetic fields measurement H: (5 ÷ 32 000) Hz E: (5 ÷ 32 000) Hz and (80 ÷ 3000) MHz	Residential environments: office buildings, firm residences etc.	PT-01-CEM.07 SR EN 50413:2020 (EN 50413:2019), clause 5.2 OMS 1193:2006 IEC 61566:1997, clause 6.2
		Industrial environments: transformation stations, power distribution stations, industrial halls, etc.	Directiva 2013/35/UE (HG 520:2016) SR EN 62110:2010 (EN 62110:2009, IEC 62110: 2009), clause 4 SR EN 62110:2010/AC:2015 (EN 62110:2009/ AC:2015, IEC 62110:2009/COR1:2015) SR EN 50499:2020 (EN 50499:2019), clause 8.9
57.	Measuring the effectiveness of electromagnetic shielding (9 kHz ÷ 6 GHz)	Electromagnetic shielded enclosures	IEEE 299:2006
		Anechoic chambers	SR EN 50147-1:1998 (EN 50147-1:1996)
		Durable rigid wall relocatable structures	ASTM E1851-21
58.	Measurement of radiated emissions produced by vehicles	Railway equipment	PT-01-CEM.09 SR EN 50121-2:2017 (EN 50121-2:2017), clause 5



Annex no.1 to Accreditation Certificate no. LI 1036
Annex no. 1 Issue Date: 26.11.2025

No.	Activity area / Measurement technique / Name of the test	Material / product / test object	Reference document
	(9 kHz ÷ 1 GHz)		SR EN 50121-3-1:2017 (EN 50121-3-1:2017), clause 6.3 SR EN 50121-3-1:2017/A1:2019 (EN 50121-3-1:2017/A1:2019)

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