



جمهوری اسلامی ایران
Islamic Republic of Iran



NACI
National Accreditation Center of Iran
مرکز ملی تایید صلاحیت ایران

Identification Number of Accreditation

NACI/Lab/1593

Initial Accreditation Date and

Place: 2021.09.06-Tehran

Renewal Date : ---

Expiry Date 2026.09.4

Laboratory Accreditation Certificate

Annex

Accreditation Scope of Samanehaye Novin Afra Laboratory

No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
1	Polymeric Insulators		✓	Dry power frequency voltage test	up to 100 kV	IEC 62217 (9.2.4) IEC 60060-1
				Visual examination after water immersion pre-stressing test		IEC 62217 (9.2.6)
				Hardness test		IEC 62217 (9.3.1)/ INSO 18232
				Accelerated weathering test		IEC 62217 (9.3.2)/ INSO 18232
				Tracking and erosion test – 1000 h salt fog test		IEC 62217 (9.3.3)/ INSO 18232
				Vertical flammability test	---	IEC 62217 (9.3.4)/ INSO 18232
				Horizontal flammability test		IEC 62217 (9.3.4)/ INSO 18232
				Porosity Test (Dye penetration test)		IEC 62217 (9.4.1)/ INSO 18232
				Water diffusion test		IEC 62217 (9.4.2)/ INSO 18232
				Wet power frequency voltage test (for insulators shorter than 1m long)	up to 100kV	IEC 60060-1 (4.4)/ IEC 61109 (11.1)/ IEC 61952 (11.1)

A. Rahmani
NACI PRESIDENT

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
1	Polymeric Insulators	✓	✓	Dry lightning impulse voltage test	up to 190 kV	IEC 60060-1 (7)/ IEC 61109 (11.1)/ IEC 61952 (11.1)
				Test for the verification of the maximum design cantilever load (MDCL)	up to 18 kN	IEC 61952 (10.4.1)
				Tensile load test	up to 70 kN	IEC 61952 (10.4.2)
				Cantilever failing load test	up to 18 kN	IEC 61952 (11.2.1)
				Verification of dimensions test	---	IEC 61952 (12.2) IEC 61109 (12.2)
				Galvanizing test	---	IEC 61952 (12.3)
				Verification of the SCL test	up to 18 kN	IEC 61952 (12.4)
				Tensile load test	up to 70 kN	IEC 61952 (13.1)
				Visual examination test	---	IEC 61952 (13.2) IEC 61109 (13.2)
				Assembled core load-time test	up to 98 kN	IEC 61109 (10.4)
				Damage limit proof test and test of the tightness of the	up to 98 kN for 96h	IEC 61109 (11.2)

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1	Polymeric Insulators		✓	interface between end fittings and insulator housing test	up to 70 kN for 3 other insulators	
				Verification of the end fittings test	---	IEC 61109 (12.3)
				Verification of tightness of the interface between end fittings and insulator housing and of the specified mechanical load, SML test	up to 70 kN for E1 and E2 insulators up to 98 kN for failing load	IEC 61109 (12.4)
				Galvanizing test	---	IEC 61109 (12.5)
				Mechanical routine test	up to 70 kN	IEC 61109 (13.1)
				Hydrophobicity test (methods A & C)	---	IEC TS 62073
				Resistance to chemical attack	up to 98 kN	IEC TR 62039 (3.8)
				Dry resistance to high-voltage, low-current arc discharges test	---	IEC 61621
2	Cut out fuse		✓	Dry lightning impulse voltage test	up to 190 kV	IEC 60282-2 (8.4.4)/ ISIRI 6766-2
3	High voltage Compound (HTV) and various insulating covers		✓	Hardness test	---	IEC 62217 (9.3.1)/ INSO 18232
				Tensile strength and elongation test		ISO 37
				Tear strength test		ASTM D624
				Tracking & Erosion Inclined plane test		IEC 60587

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
3	High voltage Compound (HTV) and various insulating covers		✓	Permittivity and dissipation factor test	---	IEC 62631-2-1
				Dry resistance to high-voltage, low-current arc discharges test		IEC 61621
				Surface resistance test		IEC 62631-3-2
				Volume resistance test		IEC 62631-3-1
				Hydrophobicity test (methods A & C)		IEC TS 62073
				Vertical flammability test		IEC 62217 (9.3.4)/ INSO 18232
				Horizontal flammability test		IEC 62217 (9.3.4)/ INSO 18232
				Surface roughness test		ISO 4288
4	FRP rod		✓	Dimension evaluation test	---	IEC 61212-2 (4.2)
				Departure from straightness test		IEC 61212-2 (4.5)
				Insulation resistance after immersion in water test		IEC 61212-2 (6.2)
				Barcol hardness test		ASTM D2583
				Resistance to chemical attack		up to 98 kN

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5	Electrical insulating matting		✓	Flame retardance test	---	IEC 61111 (5.8.1)

1- **Product Oriented:** Laboratory is accredited to meet all requirements of the product specification standard.

2- **Test Oriented:** Laboratory is accredited for carrying out the tests mentioned in the above table.

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