جمهوری اسلامی ایران
Islamic Republic of Iran

National Accreditation Center of Iran
مرکز ملی تایید صلاحیت ایران

شماره انحصاری
تایید صلاحیت
NACI/Lab/۲۷۴
تاریخ و محل اعطا گواهینامه :
۱۳۹۰/۱۱/۳۰- تهران
تاریخ اعطا گواهینامه :
۱۴۰۲/۰۸/۱۴
تاریخ اصلاح گواهینامه:---
تاریخ خاتمه اعتبار گواهینامه :
۱۴۰۵/۰۸/۱۴

گواهینامه تایید صلاحیت آزمایشگاه
Laboratory Accreditation Certificate

The National Accreditation Center of Iran (NACI) herewith confirms that body:

مرکز ملی تأیید صلاحیت ایران بدین وسیله تأیید می‌نماید که نهاد :

Markaz Tahghighat Sanaye Informatic

Address: No. D7, Golgasht St., Golzar St., Fanavaran Sq., Sanat Blvd., Parand Industrial Town, Tehran, I.R. IRAN
Postal Code: ---
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Fax : +98(21)88937658
Web Site : : www.rcii.ir

مرکز تحقیقات صنایع انفورماتیک

نشانی: ایران، تهران، پرند، شهرک صنعتی پرند، بلوار صنعت، میدان فناوران، خیابان گلزار، خیابان گلگشت، پلاک D7.
کد پستی: ---
تلفن: ۰۲۱-۵۲۴۱۴ , ۰۲۱-۵۶۴۱۸۸۶۴
دورنگار : ۰۲۱-۸۸۹۳۷۶۵۸
سایت اینترنتی : www.rcii.ir

Has fulfilled the **INSO -ISO/IEC 17025:2017**
And is competent to carry out□Test ■Calibration services according to accreditation scope are listed in 30 page/s of annex.

الزامات استاندارد **ایران-ایزو/آی ای سی ۲۰۱۷ :۱۷۰۲۵** رارعایت نموده است.
و صلاحیت انجام خدمات آزمون□کالیبراسیون■مطابق دامنه کاربردی که جزئیات آن در ۳۰ برگ پیوست آمده است را داراست.

- Validity Of Accreditation Depends On Continuity Of Compliance With The Relevant Requirements And Obtaining The Approval Based On The Annual Surveillance Assessment.
- The Unique Identification Number Of This Accreditation Certificate And All Attachments Are The Same
- To Control The Originality Of This Certificate, Visit The Website Of NACI.(**naciportal.inso.gov.ir)**

- اعتبار تایید صلاحیت منوط به استمرار انطباق با الزامات مربوطه و اخذتاییدیه در ارزیابیهای مراقبتی سالیانه است.
- شماره انحصاری شناسایی در این گواهینامه تایید صلاحیت و کلیه پیوستها یکسان است.
- جهت کنترل اصالت این گواهینامه به پایگاه اطلاع رسانی مرکز ملی تایید صلاحیت ایران مراجعه نمایید. **(naciportal.inso.gov.ir)**

Dr.S.M.Hashemi
NACI PRESIDENT

اللهم عجّل لولیک الفرج
دکتر سید محمود هاشمی
رئیس مرکز ملی تایید صلاحیت ایران

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Identification Number of Accreditation
NACI/Lab/274
Initial Accreditation Date and Place:2012.02.19 -Tehran
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Amendment Date:---
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1-Electric

No.	Quantity, Measuring Instrument, Material Measure	Range		**Capability Measurement and Calibration (±)	Standard method/ Calibration SOP/ measurement standard / CRM
1	DC Voltage Generation	000.000 mV to 320.000 mV		0.007% + 4.84 µV	Fluke 9100 Universal Calibration System
		(0.32001 to 3.20000) V		0.007% + 48.4 µV	
		(3.2001 to 32.0000) V		0.0075% + 484 µV	
		(32.001 to 320.000) V		0.0075% + 5.21 mV	
		(320.01 to 1050.00) V		0.007% + 23.75 mV	
2	AC Voltage Generation	(0.100 to 010.000) mV	10 Hz to 3 kHz	0.046% + 443 µV	Fluke 9100 Universal Calibration System
			(3 to 10) kHz	0.046% + 591 µV	
			(10 to 30) kHz	0.069% + 1.11 mV	
			(30 to 50) kHz	0.104% + 2.22 mV	
			(50 to 100) kHz	0.231% + 5.91 mV	
		10.001 mV to 32.000 mV	10 Hz to 3 kHz	0.046% + 111 µV	
			(3 to 10) kHz	0.046% + 148 µV	
			(10 to 30) kHz	0.069% + 277 µV	
			(30 to 50) kHz	0.104% + 554 µV	
			(50 to 100)	0.231% + 1.48 mV	

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No.	Quantity, Measuring Instrument, Material Measure	Range		**Capability Measurement and Calibration (±)	Standard method/ Calibration SOP/ measurement standard / CRM
2	AC Voltage Generation		kHz		
		(32.001 to 320.000) mV	10 Hz to 3 kHz	0.046% + 22.2 µV	
			(3 to 10) kHz	0.046% + 29.6 µV	
			(10 to 30) kHz	0.069% + 55.4 µV	
			(30 to 50) kHz	0.104% + 111 µV	
			(50 to 100) kHz	0.231% + 296 µV	
		(0.32001 to 3.20000) V	10 Hz to 3 kHz	0.046% + 222 µV	
			(3 to 10) kHz	0.046% + 296 µV	
			(10 to 30) kHz	0.069% + 554 µV	
			(30 to 50) kHz	0.104% + 1.11mV	
			(50 to 100) kHz	0.231% + 2.96 mV	
		(3.2001 to 32.0000) V	10 Hz to 3 kHz	0.046% + 2.22 mV	
			(3 to 10) kHz	0.069% + 2.96 mV	
			(10 to 30) kHz	0.092% + 5.54 mV	
			(30 to 50) kHz	0.173% + 11.1 mV	

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2	AC Voltage Generation		(50 to 100) kHz	0.404% + 37.0 mV	
		(32.001 to 105.000) V	10 Hz to 3 kHz	0.046% + 7.30 mV	Fluke 9100 Universal Calibration System
			(3 to 10) kHz	0.069% + 9.72 mV	
			(10 to 30) kHz	0.092% + 18.3 mV	
			(30 to 50) kHz	0.173% + 36.4 mV	
			(50 to 100) kHz	0.404% + 121 mV	
		(105.001 to 320.000) V	40 Hz to 100 Hz	0.058% + 22.2 mV	
			100 Hz to 1 kHz	0.058% + 22.2 mV	
			(1 to 3 kHz)	0.092% + 22.2 mV	
			(3 to 10 kHz)	0.092% + 37.0 mV	
			(10 to 20 kHz)	0.139% + 55.4 mV	
			(20 to 30 kHz)	0.173% + 73.9 mV	
		(320.01 to 800.00) V	40 Hz to 100 Hz	0.058% + 73.0 mV	
			100 Hz to 1 kHz	0.058% + 73.0 mV	
			(1 to 3 kHz)	0.092% + 73.0 mV	

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2			(3 to 10 kHz)	0.092% + 121 mV	
			(10 to 20 kHz)	0.139% + 183 mV	
			(20 to 30 kHz)	0.173% + 243 mV	
		(800.01 to 1050.00) V	40 Hz to 100 Hz	0.058% + 146 mV	
			100 Hz to 1 kHz	0.058% + 146 mV	
			(1 to 3 kHz)	0.092% + 146 mV	
			(3 to 10 kHz)	0.092% + 243 mV	
			(10 to 20 kHz)	0.139% + 364 mV	
3	DC Current Generation	(0.000 to 320.000) µA		0.016% + 12.7 nA	Fluke 9100 Universal Calibration System
		(0.32001 to 3.20000) mA		0.016% + 96.0 nA	
		(3.2001 to 32.0000) mA		0.016% + 1.04 µA	
		(32.001 to 320.0000) mA		0.018% + 11.1 µA	
		(0.32001 to 3.20000) A		0.069% + 136 µA	
		(3.2001 to 10.5000) A		0.063% + 1.087 mA	
		(10.5001 to 20.0000) A		0.064% + 5.20 mA	
		10-Turn Coil	(3.2001 to 32.0000) A	0.212% + 1.36 mA	
			(32.001 to 105.000) A	0.210% + 10.9 mA	
			(105.001 to	0.210% + 52.0 mA	

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3	DC Current Generation		200.000) A		
		50-Turn Coil	(16.001 to 160.000) A	0.212% + 6.81 mA	
			(160.01 to 525.00) A	0.210% + 54.3 mA	
			(525.01 to 1000.00) A	0.210% + 260 mA	
4	AC Current Generation	(0.100 to 32.000) µA	10 Hz to 3 kHz	0.081% + 1.04 µA	Fluke 9100 Universal Calibration System
			(3 to 10) kHz	0.115% + 2.1 µA	
			(10 to 20) kHz	0.231% + 6.90 µA	
			(20 to 30) kHz	0.289% + 10.4 µA	
		(32.001 to 320.000) µA	10 Hz to 3 kHz	0.081% + 346 nA	
			(3 to 10) kHz	0.115% + 693 nA	
			(10 to 20) kHz	0.231% + 2.3 µA	
			(20 to 30) kHz	0.289% + 3.5 µA	
		(0.32001 to 3.20000) mA	10 Hz to 3 kHz	0.081% + 346 nA	
			(3 to 10) kHz	0.115% + 693 nA	
			(10 to 20) kHz	0.231% + 2.3 µA	
			(20 to 30) kHz	0.289% + 3.5 µA	

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4	AC Current Generation	(3.2001 to 32.0000) mA	10 Hz to 3 kHz	0.081% + 3.70 µA	
			(3 to 10) kHz	0.115% + 7.39 µA	
			(10 to 20) kHz	0.231% + 14.8 µA	
			(20 to 30) kHz	0.289% + 25.9 µA	
		(32.001 to 320.000) mA	10 Hz to 3 kHz	0.092% + 37.0 µA	
			(3 to 10) kHz	0.115% + 55.4 µA	
			(10 to 20) kHz	0.231% + 73.9 µA	
			(20 to 30) kHz	0.289% + 110.9 µA	

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4	AC Current Generation	(0.32001 to 3.20000) A		10 Hz to 3 kHz	0.115% + 554 µA	Fluke 9100 Universal Calibration System
				(3 to 10) kHz	0.289% + 2.96 mA	
		(3.2001 to 10.5000) A		(10 to 20) kHz	0.231% + 3.5 mA	
				(20 to 30) kHz	0.577% + 11.5 mA	
		(10.5001 to 20.0000) A		10 Hz to 3 kHz	0.231% + 7.97 mA	
				(3 to 10) kHz	0.577% + 26.6 mA	
		10-Turn Coil	(3.2001 to 32.0000) A	(10 to 100) Hz	0.306% + 6.35 mA	
				(100 to 440) Hz	0.923% + 31.2 mA	
			(32.001 to 200.000) A	(10 to 100) Hz	0.314% + 104 mA	
				(100 to 440) Hz	0.799% + 0.29 A	
		50-Turn Coil	(16.001 to 160.000) A	(40 to 440) Hz	0.306% + 32.3 mA	
			(160.01 to 1000.00) A	(40 to 440) Hz	0.314% + 0.52 A	

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No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	Standard method/ Calibration SOP/ measurement standard / CRM
5	Constant Resistance Generation	50 mΩ	0.035%	Fluke 9100 Universal Calibration System
		100 mΩ	0.023%	
6	Resistance Generation	(0.0000 to 40.0000) Ω	0.029% + 11.5 mΩ	Fluke 9100 Universal Calibration System
		(40.001 to 400.000 Ω	0.017% + 23.1 mΩ	
		(0.40001 to 4.00000) kΩ	0.017% + 92.6 mΩ	
		(4.0001 to 40.0000) kΩ	0.017% + 926 mΩ	
		(40.001 to 400.000) kΩ	0.021% + 9.26 Ω	
		(0.40001 to 4.00000) MΩ	0.023% + 116 Ω	
		(4.0001 to 40.0000) MΩ	0.058% + 2.31 kΩ	
		(40.001 to 400.000) MΩ	0.069% + 46.2 kΩ	
7	Capacitance Generation	(0.5000 to 4.0000) nF	0.346% + 17.3 pF	Fluke 9100 Universal Calibration System
		(4.0001 to 40.000) nF	0.346% + 34.6 pF	
		(40.001 to 400.00) nF	0.346% + 185 pF	
		(400.01 to 4.0000) µF	0.462% + 1.85 nF	
		(4.0001 to 40.000) µF	0.577% + 18.5 nF	

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7	Capacitance Generation	(40.001 to 400.00) µF	0.577% + 185 nF	
		(400.01 to 4.0000) mF	0.577% + 1.85 µF	
		(4.0001 to 40.000) mF	1.155% + 69.3 µF	
8	Frequency Generation	(0.500 to 320.000) Hz	28.87 ppm + 0.58 mHz	Fluke 9100 Universal Calibration System
		(0.320000 to 1.00000) kHz	28.87 ppm + 5.77 mHz	
		(1.00001 to 3.20000) kHz	28.87 ppm + 5.77 mHz	
		(3.20000 to 32.00000) kHz	28.87 ppm+57.7 mHz	
		(32.00000 to 320.000) kHz	28.87 ppm + 0.58 Hz	
		(0.32 to 10.0000) MHz	28.87 ppm + 5.77 Hz	
9	DC Power Generation	1 mW to 20 kW	0.03%	Fluke 9100 Universal Calibration System
10	DC Power Generation With Current Coil	(20 to 1000) kW	0.3%	Fluke 9100 Universal Calibration System

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No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	Standard method/ Calibration SOP/ measurement standard / CRM
11	AC Power Generation	1 mW to 20 kW (10 Hz to 440 Hz)	0.1%	Fluke 9100 Universal Calibration System
12	AC Power Generation With Current Coil	(20 to 1000) kW (10 Hz to 440 Hz)	0.4%	Fluke 9100 Universal Calibration System Fluke 9100 Universal Calibration System
13	Power Factor Generation (cos φ)	-1.00 to +1.00 (10 Hz to 440 Hz)	0.02	Fluke 9100 Universal Calibration System
14	Phase Generation	-180° to +180° (10 Hz to 440 Hz)	0.07°	Fluke 9100 Universal Calibration System
15	DC Voltage Measurement	(0.0000 to 100.0000) mV	0.006% + 4.04 µV	Multimeter Fluke 8846A
		(0.100001 to 1.000000) V	0.003% + 8.1 µV	
		(1.00001 to 10.00000) V	0.003% + 58.0 µV	

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15	DC Voltage Measurement	(10.0001 to 100.0000) V	0.004% + 695 µV	
		(100.001 to 1000.00) V	0.005% + 11.6 mV	
16	DC Voltage Measurement (With High Voltage Probe)	(1 to 5) kV	1.2% + 0.0002 V	Precision Multimeter Fluke 8846A+ High Voltage Probe Fluke 80K-6
		(5 to 6) kV	1.2% + 0.002 V	
		(6 to 20) kV	2.3% + 0.002 V	
		(20 to 35) kV	1.2% + 0.002 V	
		(35 to 40) kV	2.3% + 0.002 V	

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No.	Quantity, Measuring Instrument, Material Measure	Range		**Capability Measurement and Calibration (±)	Standard method/ Calibration SOP/ measurement standard / CRM
17	AC Voltage Measurement	(0.1000 to 100.0000) mV	(3 to 5) Hz	1.15% + 46.2 µV	Precision Multimeter Fluke 8846A
			(5 to 10 Hz	0.40% + 46.2 µV	
			10 Hz to 20) kHz	0.07% + 46.2µV	
			(20 to 50) kHz	0.14% + 57.7 µV	
			(50 to 100) kHz	0.69% + 92.4 µV	
			(100 to 300) kHz	4.62% + 577 µV	
		(0.100001 to 1.000000) V	(3 to 5) Hz	1.15% + 346 µV	
			(5 to 10 Hz	0.40% + 346 µV	
			10 Hz to 20) kHz	0.07% + 346 µV	
			(20 to 50) kHz	0.14% + 577 µV	
			(50 to 100) kHz	0.69% + 924 µV	
			(100 to 300) kHz	4.62% + 5774 µV	
		(1.000001 to 10.00000) V	(3 to 5) Hz	1.15% + 3.46 mV	
			(5 to 10 Hz	0.40% + 3.46 mV	
			10 Hz to 20) kHz	0.07% + 3.46 mV	

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17	AC Voltage Measurement	(10.00001 to 100.0000) V	(20 to 50) kHz	0.14% + 5.77 mV	
			(50 to 100) kHz	0.69% + 9.24 mV	
			(100 to 300) kHz	4.62% + 57.7 mV	
		(10.00001 to 100.0000) V	(3 to 5) Hz	1.15% + 34.6 mV	
			(5 to 10 Hz	0.40% + 34.6 mV	
			10 Hz to 20) kHz	0.07% + 34.6 mV	
			(20 to 50) kHz	0.14% + 57.7 mV	
			(50 to 100) kHz	0.69% + 92.4 mV	
			(100 to 300) kHz	4.62% + 577 mV	
		(100.0001 to 1000.000) V	(3 to 5) Hz	1.15% + 260 mV	
			(5 to 10 Hz	0.40% + 260 mV	
			10 Hz to 20) kHz	0.07% + 260 mV	
			(20 to 50) kHz	0.14% + 433 mV	
			(50 to 100) kHz	0.69% + 693 mV	
			(100 to 300) kHz	4.62% + 4.330 V	

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18	AC Voltage Measurement (With High Voltage Probe)	(1 to 5) kV (45 to 65) Hz	1.2% + 0.003 V	Precision Multimeter Fluke 8846A+ High Voltage Probe Fluke 80K-6
		(5 to 6) kV (45 to 65) Hz	1.2% + 0.03 V	
		(6 to 28) kV (45 to 65) Hz	5.8% + 0.03 V	
19	DC Current Measurement (Direct Method)	(0.1 to 100.0000) µA	0.058% + 28.9 nA	Precision Multimeter Fluke 8846A
		(0.100001 to 1.000000) mA	0.058% + 57.7 nA	
		(1.000001 to 10.00000) mA	0.058% + 2.31 µA	
		(10.00001 to 100.0000) mA	0.058% + 5.77 µA	
		(0.100001 to 1.000000) A	0.058% + 231 µA	
		(1.000001 to 3.00000) A	0.115% + 693 µA	
		(3.00001 to 10.00000) A	0.173% + 924 µA	
20	DC Current Measurement (With Clamp)	(10.001 to 20.000) A	0.12% + 24 mA	Precision Multimeter Fluke 8846A+current clamp Fluke i410
		(20 to 50) A	4.0% + 24 mA	
		(50 to 400) A	4.0% + 24 mA	

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21	AC Current Measurement (Direct Method)	(1 to 100.0000) µA	(3 to 5) Hz	1.15% + 0.07 µA	Precision Multimeter Fluke 8846A
			(5 to 10) Hz	0.35% + 0.07 µA	
			10 Hz to 5 kHz	0.115% + 0.07 µA	
			(5 to 10) kHz	0.231% + 0.29 µA	
		(0.100001 to 1.000000) mA	(3 to 5) Hz	1.15% + 0.47 µA	
			(5 to 10) Hz	0.35% + 0.47 µA	
			10 Hz to 5 kHz	0.115% + 0.47 µA	
			(5 to 10) kHz	0.231% + 2.89 µA	
		(1.00000 to 10.00000) mA	(3 to 5) Hz	1.15% + 4.62 µA	
			(5 to 10) Hz	0.35% + 4.62 µA	
			10 Hz to 5 kHz	0.115% + 4.62 µA	
			(5 to 10) kHz	0.231% + 28.9 µA	

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21	AC Current Measurement (Direct Method)	(10.00001 to 100.0000) mA	(3 to 5) Hz	1.15% + 46.2 µA	Precision Multimeter Fluke 8846A
			(5 to 10) Hz	0.35% + 46.2 µA	
			10 Hz to 5 kHz	0.115% + 46.2 µA	
			(5 to 10) kHz	0.231% + 289 µA	
		(0.100001 to 1.000000) A	(3 to 5) Hz	1.15% + 462 µA	
			(5 to 10) Hz	0.35% + 462 µA	
			10 Hz to 5 kHz	0.115% + 462 µA	
			(5 to 10) kHz	0.404% + 8.08 mA	
		(1.000001 to 3.00000) A	(3 to 5) Hz	1.27% + 2.08 mA	
			(5 to 10) Hz	0.404% + 2.08 mA	
			10 Hz to 5 kHz	0.173% + 2.08 mA	
			(5 to 10) kHz	0.404% + 24.2 mA	Precision Multimeter Fluke 8846A
		(3.00001 to 10.00000) A	(3 to 5) Hz	2.31% + 6.93 mA	
			(5 to 10) Hz	1.27% + 6.93 mA	
			10 Hz to 5 kHz	0.173% + 6.93 mA	
			(5 to 10) kHz	0.404% + 80.8 mA	

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22	AC Current Measurement (With Clamp)	(10.001 to 20.000) A	(45 to 400) Hz	0.346% + 0.001 A	Precision Multimeter Fluke 8846A+current clamp Fluke i410
		(20 to 50) A	(45 to 400) Hz	4.1% + 0.029 A	
		(50 to 400 A	(45 to 400) Hz	4.1% + 0.29 A	
23	Resistance Measurement (Direct Method)	(0.000000 to 10.00000) Ω		0.012% + 3.46 mΩ	Precision Multimeter Fluke 8846A
		(10.00001 to 100.0000) Ω		0.012% + 4.62 mΩ	
		(0.100001 to 1.000000) kΩ		0.012% + 11.6 mΩ	
		(1.000001 to 10.00000) kΩ		0.012% + 116 mΩ	
		(10.00001 to 100.0000) kΩ		0.012% + 1.16 Ω	
		(0.100001 to 1.000000) MΩ		0.012% + 11.6 Ω	
		(1.000001 to 10.00000) MΩ		0.046% + 116 Ω	
		(10.00001 to 100.0000) MΩ		0.924% + 11.6 kΩ	
		(0.100001 to 1.000000) GΩ		2.31% + 115.5 kΩ	

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24	Constant Resistance Measurement	50.0000 mΩ	0.05 mΩ	Precision Multimeter Fluke 8846A + 1240 Burster calibration resistor 50mΩ
		100.0000 mΩ	0.09 mΩ	Precision Multimeter Fluke 8846A + 1240 Burster calibration resistor 100 mΩ
25	Electrical Power Measurement (DC)	(6.001 to 75.000) mW	0.12 %Rdg. + 0.13 %Rdg. F.s.	Hioki Power Meter PW3335
		(75.01 to 750.00) mW	0.12 %Rdg. + 0.13 %Rdg. F.s.	
		(0.7501 to 7.50000 W	0.12 %Rdg. + 0.13 %Rdg. F.s.	
		(7.501 to 75.000) W	0.12 %Rdg. + 0.13 %Rdg. F.s.	
		(75.01 to 750.00) W	0.12 %Rdg. + 0.13 %Rdg. F.s.	
		(0.7501 to 6.00000) kW	0.12 %Rdg. + 0.13 %Rdg. F.s.	
		(6.001 to 20.000) kW	0.12 %Rdg. + 0.13 %Rdg. F.s.	

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26	Electrical AC Power Measurement	(6.001 to 75.000) mW	(10 to 640) Hz	0.35 %Rdg. + 0.06 %Rdg. F.s.	Hioki Power Meter PW3335
		(75.01 to 750.00) mW	(10 to 640) Hz	0.35 %Rdg. + 0.06 %Rdg. F.s.	
		(0.7501 to 7.5000) W	(10 to 640) Hz	0.35 %Rdg. + 0.06 %Rdg. F.s.	
		(7.501 to 75.000) W	(10 to 640) Hz	0.35 %Rdg. + 0.06 %Rdg. F.s.	
		(75.01 to 750.00) W	(10 to 640) Hz	0.35 %Rdg. + 0.06 %Rdg. F.s.	
		(0.7501 to 6.0000) kW	(10 to 640) Hz	0.35 %Rdg. + 0.06 %Rdg. F.s.	
		(6.001 to 20.000) kW	(10 to 640) Hz	0.35 %Rdg. + 0.06 %Rdg. F.s.	

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27	Timer & Chronometer	1s to 12h		0.08 s	Counters and Frequency Meters HM8123 HAMEG
28	Waveform Amplitude Measurement	Up to 300 V (direct 1:1)	DC Coupled (DC to 60 Hz)	1.732%+1.156 mV	Fluke 9100 Universal Calibration System
			AC Coupled (50 Hz)	2.425%+1.156 mV	
			AC Coupled (60 Hz)	2.194%+1.156 mV	
			AC or DC Coupled (60 Hz to 20 kHz)	2.887%+1.733 mV	
			AC or DC Coupled (20 kHz to 1 MHz)	5.774%+2.310 mV	
			AC or DC Coupled (1 MHz to 25 MHz)	11.547%+2.310 mV	
		Up to 1000 V (with 10:1 probe)	DC Coupled (DC to 60 Hz)	1.732%+11.561 mV	Fluke 9100 Universal Calibration System
			AC Coupled (50 Hz)	2.425%+11.561 mV	
			AC Coupled (60 Hz)	2.194%+11.561 mV	

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28	Waveform Amplitude Measurement		AC or DC Coupled (60 Hz to 20 kHz)	2.887%+17.330 mV	
			AC or DC Coupled (20 kHz to 1 MHz)	5.774%+23.101 mV	
			AC or DC Coupled (1 MHz to 25 MHz)	11.547%+23.101 mV	
29	Waveform Effective Value (RMS) Measurement	Up to 300 V (direct 1:1)	DC to 60 Hz	1.732%+1.156 mV	Fluke 9100 Universal Calibration System
			60 Hz to 20 kHz	2.887%+1.733 mV	
			20 kHz to 1 MHz	5.774%+2.310 mV	
			1 MHz to 25 MHz	11.547%+2.310 mV	
		Up to 1000V (with 10:1 probe)	DC to 60 Hz	1.732%+11.561 mV	
			60 Hz to 20 kHz	2.887%+17.330 mV	
			20 kHz to 1 MHz	5.774%+23.101 mV	
			1 MHz to 25 MHz	11.547%+23.101 mV	
30	Phase Measurement	-180 to +180 degrees	0.1 Hz to 1 MHz	1.291 degree	Fluke 9100 Universal Calibration System
			1 MHz to 10 MHz	3.512 degree	
31	Frequency Measurement	Up to 200 MHz		0.04 [µHz / Hz]	Precision Multimeter Fluke 8846A

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32	Oscilloscope	Pulse Response	(88.800 mV to 1.1120 V) @ (100 ns to 10 ms) @ (load impedance = 50 Ω)	3.46%	Fluke 9100 Universal Calibration System+ signal generator
			(888.00 mV to 55.600 V) @ (10 µs to 10 ms) @ (load impedance = 1 MΩ)	3.46%	
		Comb Signal (Time Marker)	2.0000 ns to 5.5000 s	0.29 ppm	
		Square Waveform (Amplitude)	(4.4400 mV to 133.44 V) @ (1kHz)	0.29%	
		Sine wave (Band Width)	Up to 500 MHz (Ref. to 100 kHz)	< 0.7 dB	

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33	Burst Signal Generators (@ 50 Ω Load)	Output Voltage Peak Value Measurement	±0.250 kV	2.582 % + 0.231 mV	+ Load 50 Ω Oscilloscope with 3 GHz Bandwidth
			±0.5 kV	2.582 % + 0.577 mV	
			±1 kV	2.582 % + 1.155 mV	
			±2 kV	2.582 % + 2.309 mV	
			±4 kV	2.582 % + 5.774 mV	
		Output Pulse Rise Time Measurement	±0.250 kV	2.768 % + 0.021 ns	
			±0.5 kV	2.812 % + 0.021 ns	
			±1 kV	2.812 % + 0.021 ns	
			±2 kV	2.812 % + 0.021 ns	
			±4 kV	2.870 % + 0.021 ns	

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33	Burst Signal Generators (@ 50 Ω Load)	Pulse Width Measurement	±0.250 kV	2.768 % + 0.121 ns	
			±0.5 kV	2.812 % + 0.121 ns	
			±1 kV	2.812 % + 0.121 ns	
			±2 kV	2.812 % + 0.121 ns	
			±4 kV	2.870 % + 0.121 ns	
34	Burst Signal Generators (@1000 Ω Load)	Output Voltage peak Value Measurement	±0.250 kV	2.582 % + 0.231 mV	Load 1000 Ω + Oscilloscope with 3 GHz
			±0.5 kV	2.582 % + 0.577 mV	
			±1 kV	2.582 % + 1.155 mV	
			±2 kV	2.582 % + 2.309 mV	
			±4 kV	2.582 % + 5.774 mV	
		Output Pulse Rise Time Measurement	±0.250 kV	2.776 % + 0.012 ns	
			±0.5 kV	2.820 % + 0.012 ns	
			±1 kV	2.820 % + 0.012 ns	
			±2 kV	2.820 % + 0.012 ns	
			±4 kV	2.870 % + 0.012 ns	
		Pulse Width Measurement	±0.250 kV	2.776 % + 0.239 ns	
			±0.5 kV	2.820 % +0.239 ns	
			±1 kV	2.820 % +0.239 ns	

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			±2 kV	2.820 % +0.239 ns	
			±4 kV	2.870 % +0.239 ns	
35	Surge Generator (8/20 µs wave @Rout = 2 Ω and 12 Ω Short Circuit)	Output Current Measurement	±0.5 kV	2.582 % + 0.577 A	Current probe + Oscilloscope with 3 GHz Bandwidth
			±1 kV	2.582 % + 1.154 A	
			±2 kV	2.582 % + 2.307 A	
			±4 kV	2.582 % + 5.768 A	
		Rise Time Measurement	±0.5 kV	2.812 % + 0.024 µs	
			±1 kV	2.812 % + 0.024 µs	
			±2 kV	2.812 % + 0.024 µs	
			±4 kV	2.870 % + 0.024 µs	
		Pulse Width Measurement	±0.5 kV	2.812 % + 0.060 µs	
			±1 kV	2.812 % + 0.060 µs	
			±2 kV	2.812 % + 0.060 µs	
			±4 kV	2.870 % + 0.060 µs	
36	SURGE Generating (1.2/50 µs Wave @Rout =12 Ω Open Circuit)	Output Voltage Measurement	±0.5 kV	2.582 %+ 1.155 mV	High-Voltage Probe + Oscilloscope 3 GHz Bandwidth
			±1 kV	2.582 %+ 2.309 mV	
			±2 kV	2.582 %+ 5.774 mV	
			±4 kV	2.582 %+ 5.774 mV	
		Rise Time Measurement	±0.5 kV	2.813 % + 2.411 ns	
			±1 kV	2.812 % + 2.411 ns	
			±2 kV	2.870 % + 2.411 ns	
			±4 kV	2.726 % + 2.411 ns	

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36	SURGE Generating (1.2/50 µs Wave @Rout =12 Ω Open Circuit)	Pulse Width Measurement	±0.5 kV	2.813 % + 0.121 ns	
			±1 kV	2.812 % + 0.121 ns	
			±2 kV	2.870 % + 0.121 ns	
			±4 kV	2.726 % + 0.121 ns	
37	Coupling / Decoupling network (CDN)	Coupling factor Measurement	150 kHz to 1000 MHz	0.517 dB	VNA (Vector Network Analyzer)
		Input impedance measurement		5.2 %	
38	Electromagnetic Clamp (EM Clamp)	Coupling factor Measurement	150 kHz to 1000 MHz	0.517 dB	VNA (Vector Network Analyzer)
		Directivity Measurement		0.517 dB	
39	Line Impedance Stabilization Network (LISN)	Voltage Division Factor Measurement	150 kHz to 150 MHz	0.517 dB	VNA (Vector Network Analyzer)
		Impedance Measurement		5.2 %	

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40	ESD Generator	Discharge Current	±0.2 kV to ±15 kV	1.16 %	Faraday cage + Coaxial current target-attenuator-cable chain + Oscilloscope at least 2 GHz bandwidth (Oscilloscope 3 GHz Bandwidth
		Rise time		1.12 %+ 2 ps	
		Values of current after peak		1.16 %	
41	RF Power Generation	250 kHz to 2 GHz	(-70 to -10) dBm	0.82 dB	Signal Generator
			(-10 to +10) dBm	0.7 dB	
			(+10 to +15) dBm	0.7 dB	

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41	RF Power Generation	(2 to 20) GHz	(-70 to -10) dBm	1.04 dB	
			(-10 to +10) dBm	0.93 dB	
			(+10 to +15) dBm	0.93 dB	
		(20 to 40) GHz	(-70 to -10) dBm	1.16 dB	
			(-10 to +10) dBm	1.04 dB	
			(+10 to +15) dBm	1.16 dB	

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Amendment Date:---
Expiry Date:2026.11.05

National Accreditation Center of Iran
مرکز ملی تایید صلاحیت ایران

Laboratory Accreditation Certificate

Annex
Accreditation Scope of Markaz Tahghighat Sanaye Informatic

No.	Quantity, Measuring Instrument, Material Measure	Range		**Capability Measurement and Calibration (±)	Standard method/ Calibration SOP/ measurement standard / CRM
42	RF Power Measurement	50 MHz to 18GHz	(-40 to +15) dBm	1.5 %	Power meter+ Power sensor+ Spectrum analyzer
43	RF Attenuator	(-40 to +15) dBm		1.5 %	Signal Generator+ Power meter+ Power sensor +Network Analyzer

Dr.S.M.Hashemi
NACI PRESIDENT

جمهوری اسلامی ایران
Islamic Republic of Iran

Identification Number of Accreditation
NACI/Lab/274
Initial Accreditation Date and Place:2012.02.19 -Tehran
renewal Date :2023.11.05
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National Accreditation Center of Iran
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Laboratory Accreditation Certificate

Annex
Accreditation Scope of Markaz Tahghighat Sanaye Informatic

No.	Quantity, Measuring Instrument, Material Measure	Range	**Capability Measurement and Calibration (±)	Standard method/ Calibration SOP/ measurement standard / CRM
44	RF Frequency Generation	250 kHz to 40 GHz	0.035 [µHz / Hz]	Signal Generator + Frequency Counter

*On-site Calibration Service is available
** CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.

Dr.S.M.Hashemi
NACI PRESIDENT