

گواهینامه تایید صلاحیت آزمایشگاه
Laboratory Accreditation Certificate

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

مرکز ملی تایید صلاحیت ایران بدین وسیله تایید می نماید که :

Sanjesh Gostar Kaveh Laboratory

آزمایشگاه سنجش گستر کاوه

Address: Sam building, NO 3, Pirzadeh alley, Nesa AVE, Mird
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Web Site : www.sgk-ir.com

نشانی: تهران، بلوار میرداماد، خیابان نساء، کوچه پیرزاده، پلاک ۳.

تلفن: ۰۲۱-۲۲۹۰۹۴۵۵

دورنگار: ۰۲۱-۲۲۹۱۲۹۸۱

سایت اینترنتی: www.sgk-ir.com

Has fulfilled the ISIRI-ISO/IEC 17025.

And is competent to carry out ☐ Test ☒ Calibration services a
to accreditation scope are listed in
7 pages of annex.

الزامات استاندارد ایران - ایزو/آی ای سی ۱۷۰۲۵ را رعایت نموده است.
و صلاحیت انجام خدمات آزمون ☐ کالیبراسیون ☒ مطابق دامنه کاربردی
که جزئیات آن در ۹ برگ پیوست آمده است را داراست.

NACI Registration No. : NACI/Lab/150

Initial Accreditation Date and Place: 2012/01/15 - Tehran

Date: 2018/03/10

Expiry Date: 2021/03/09

شماره گواهینامه تایید صلاحیت : NACI/Lab/۱۵۰

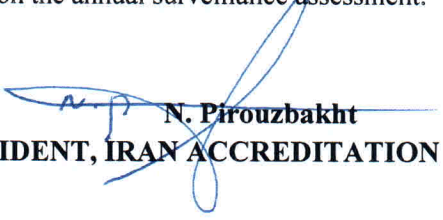
تاریخ و محل صدور اولیه گواهینامه : ۱۳۹۰/۱۰/۲۵ - تهران

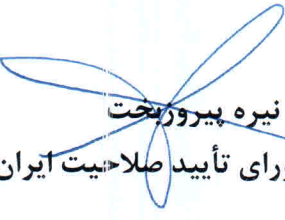
تاریخ صدور مجدد گواهینامه : ۱۳۹۶/۱۲/۱۹

تاریخ خاتمه اعتبار گواهینامه : ۱۳۹۹/۱۲/۱۸

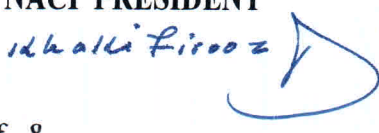
Validity of Accreditation Certificate depends on continuity of
compliance with the relevant requirements and obtaining the :
based on the annual surveillance assessment.

حفظ اعتبار در طول دوره منوط به استمرار انطباق با ضوابط مربوطه و
اخذ تاییدیه در ارزیابی های مراقبتی سالانه است.

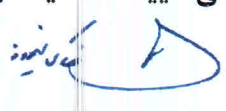

N. Pirouzbakht
PRESIDENT, IRAN ACCREDITATION COUNCIL


نیره پیروزبخت
رئیس شورای تایید صلاحیت ایران

A.R. Khakifirooz
NACI PRESIDENT


A.R. Khakifirooz

علیرضا خاکی فیروز
رئیس مرکز ملی تایید صلاحیت ایران


علیرضا خاکی فیروز

Laboratory Accreditation Certificate

Annex

Accreditation Scope of Sanjesh Gostar Kaveh Laboratory

1- Temperature

NO	Quantity, measuring instrument, material measure	Range	Capability Measurement and Calibration ($\pm$)
1	Liquid in glass /bimetal & filled thermometer	-40 to 100°C	0.04°C
		100 to 300°C	0.05°C
2	Resistance thermometers(RTDs)	-40 to 140°C	0.02°C
		140 to 650°C	0.05°C
3	Thermocouple	-40 to 650°C	0.05°C
		650 to 1100°C	1.1°C
		1100 to 1200°C	1.6°C
4	Non-contact thermometer	-30 to 140°C	0.4°C
		140 to 1100°C	2.2°C
		1100 to 1200°C	1.6°C
5	Water triple point	0.01°C	0.0005°C
6	Liquid bath and dry block calibrators	-40 to 460°C	0.006°C
		460 to 650°C	0.014°C
		650 to 1100°C	1°C
		1100 to 1200°C	1.5°C
7	Environment (oven, industrial furnace, incubator, autoclave, refrigerator,)	-40 to 650°C	0.06°C
		650 to 1100°C	1.1°C
		1100 to 1200°C	1.6°C
8	Temperature indicator	PT100,PT200,PT500,PT3916,P T1000, NI120	-200 to 800°C
		Type R, S, B	-200 to 1800°C
		Type N	-200 to 1300°C
		Type J, K	-200 to 1400°C
		Type E, T	-250 to 1000°C

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Laboratory Accreditation Certificate

Annex

Accreditation Scope of Sanjesh Gostar Kaveh Laboratory

2- Humidity

NO	Quantity, measuring instrument, material measure		Range	Capability Measurement and Calibration ($\pm$)
1	Humidity measurement	Humidity	10 - 90% RH	2.2 %RH
		Temperature	10 - 60° C	0.6°C
2	humidity chambers		10-97.3% RH At 180°C	1 %RH 0.18°C

3- Pressure

NO	Quantity, measuring instrument, material measure		Range	Capability Measurement and Calibration ($\pm$)
1	DWT	Pneumatic	Up to 27 bar	0.0061% rdg
		Hydraulic	Up to 1200 bar	0.0061% rdg
2	Vacume gauge		-0.85 to 0 bar	0.0006% rdg
3	Pneumatic pressure gauge		0 to 100 bar	0.006% rdg
4	Hydraulic pressure gauge		0 Up to 1200 bar	0.006% rdg
5	Electromechanical pressure gauge (transmitters & transducers)		Up to 1200 bar	0.006% rdg
6	Pressure switch		Up to 10 bar	0.006% rdg
7	safety valves	pressure	-0.85 to 400 bar	0.25% rdg
		Seat-tightness test Bubble/drop count		

4- Mass

No.	Quantity, Measuring Instrument, Material Measure	Range	Best Measurement Capability lab($\pm$)
1	weight	1 mg	0.0068 mg
		2mg	0.0068 mg

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No.	Quantity, Measuring Instrument, Material Measure	Range	Best Measurement Capability lab(±)
		5mg	0.007 mg
		10mg	0.0067 mg
		20 mg	0.008 mg
		50 mg	0.008 mg
		100 mg	0.015 mg
		200 mg	0.014 mg
		500 mg	0.01 mg
		1 g	0.01 mg
		2g	0.01 mg
		5g	0.013 mg
		10g	0.016 mg
		20g	0.028 mg
		50g	0.07 mg
		100gr	0.12 mg
		200gr	0.23 mg
		500gr	0.9 mg
		1kg	0.4 mg
		2kg	6.8 mg
		5kg	9.5 mg
		10kg	62 mg
		20kg	66 mg
2	None-automatic weighing instrument	1 to 500 mg	(0.000004m+0.002)mg(m:mg)
		500 to 1 kg	(0.000008m+0.002)mg(m:mg)
		1 to 10 kg	(0.0014m+1.3)mg(m: g)
		10 to 20 kg	(0.001m+6)mg(m: g)
		20 to 100 kg	(0.0054m+17.7)mg(m: g)

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No.	Quantity, Measuring Instrument, Material Measure	Range	Best Measurement Capability lab(±)
3	Bascule	100 to 500 kg	(0.00021m+52)mg(m: g)
		500 to 1000 kg	(0.00013m+92.5)mg(m: g)
		1000 to 2000 kg	(0.000093m+130.9)mg(m: g)

5- Volume

NO	Quantity, measuring instrument, material measure	Range	Capability Measurement and Calibration (±)
1	Burette	(0.1 to 100) ml	0.0001 to 0.01 ml
2	Pipette	(0.1 to 100) ml	0.0001 to 0.01 ml
3	Graduated cylinder	(1 to 100) ml	0.0002 to 0.01 ml
		(100 to 5000) ml	0.01 to 0.6 ml
4	Dispenser	(1 to 100) ml	0.0001 to 0.01 ml
5	Syringe	Up to 1000 µl	0.0001 ml
6	Micro pipette	(1 to 100) µl	0.006 to 0.01 µl
		(100 to 1000) µl	0.01 to 0.1 µl
7	Volumetric flask	(2 to 100) µl	0.0002 to 0.01 ml
		(100 to 5000) µl	0.01 to 0.6 ml
8	Pyknometer	(0.1 to 100) ml	0.0002 to 0.01 ml

6- Rotation and Time measurement

NO	Quantity, measuring instrument, material measure	Range	Capability Measurement and Calibration (±)
1	RPM measurement	0 to 600 Rpm	0.1 Rpm
		600 to 100000 Rpm	1 Rpm
2	Time	0 to 900 second	0.003% rdg
		900 to 36000 second	0.016% rdg

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Laboratory Accreditation Certificate

Annex

Accreditation Scope of Sanjesh Gostar Kaveh Laboratory

7- Chemical

NO	Quantity, measuring instrument, material measure	Range	Capability Measurement and Calibration ($\pm$)
1	pH METER	Up to 14 pH -400 to +400 mv	0.01pH 0.01mv
2	Conductivity meter	UP to 100 μ s/cm	1% rdg
		100 to 2000 μ s/cm	0.2% rdg
		2000 to 20000 μ s/cm	0.44% rdg
4	Hydrometer	0.65 to 1.4 g/cm ³	0.0004 g/cm ³
		1.4 to 1.85 g/cm ³	0.008 g/cm ³
5	Refractometer	1.33-1.44 nD Up to 60% BRIX	0.02 nD 0.02% BRIX
6	Spectrophotometer	Wavelength 200-700 nm	0.2 nm
		0.01-2 A 200-350 nm	0.1% rdg
		600-750 nm	0.1% rdg
7	Alcohol meter	Up to 100% volume	0.04 Vol
8	Turbidity meter	0.1 to 4000 NTU	0.06 %rdg

8- Dimention

No.	Quantity, Measuring Instrument, Material Measure	Range	Best Measurement Capability lab($\pm$)
1	External Caliper	Up to 100 mm	(0.012 L(mm)+0.08) μ m
		100 to 1000 mm	(0.0127 L(mm)+0.05) μ m
2	Internal Caliper	Up to 100 mm	(0.012 L(mm)+0.08) μ m
		100 to 1000 mm	(0.0127 L(mm)+0.05) μ m

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Annex

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No.	Quantity, Measuring Instrument, Material Measure		Range	Best Measurement Capability lab(±)
3	Depth Gauge Caliper		Up to 100 mm	(0.012L(mm)+0.7) μm
4	External Micrometer		Up to 100 mm	(0.0123 L(mm)+0.11) μm
			100 to 1000 mm	(0.0131 L(mm)+0.10) μm
5	Internal Micrometer		Up to 100 mm	(0.0123 L(mm)+0.11) μm
			100 to 700 mm	(0.0131 L(mm)+0.10) μm
6	Depth Micrometer		Up to 100 mm	(0.0123 L(mm)+0.11) μm
7	Dial indicator type (resolution:0.01mm)		Up to 25 mm	(0.0044 L(mm)+0.38) μm
8	Square	square	Up to 400 mm	2 μm
		Flatness/straightness		2 μm
		parallelism		3.7 μm
9	Angle gauge & Protractor		0 to180°	(0.03 D(°)+7.3)''
10	Profile Projector ,VMM,VMS		Up to 500 mm	(0.0126 L(mm)+0.08) μm
11	Pitch guage ,Gear, step		Up to 25 mm	2 μm
12	Radius gauge		0.1 to 60 mm	2 μm
13	Measurement with VMS		X=250 Y=250	(1.5+0.005 L(mm)) μm 15“

9- Force

No.	Quantity, Measuring Instrument, Material Measure			Range	Best Measurement Capability lab(±)
1	Testing machines	force	Tension	Up to 50 kg	0.16% rdg
				50 Kg to 1 t	0.36% rdg
				1 to 2 t	0.21% rdg

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No.	Quantity, Measuring Instrument, Material Measure			Range	Best Measurement Capability lab(±)
			compression	2 to 20 t	0.6% rdg
				Up to 50 kg	0.16% rdg
				50 Kg to 1 t	0.36% rdg
				1 to 2 t	0.21% rdg
				2 to 20 t	0.1% rdg
				20 to 100 t	0.23% rdg
		velocity		0.1 to 300 mm/min	0.006 %FS
		movement		Up to 300 mm	0.003 %FS
2	Load Cell	Tension	Up to 50 kg	0.16% rdg	
			50 Kg to 1 t	0.36% rdg	
			1 to 2 t	0.21% rdg	
			2 to 20 t	0.6% rdg	
		compression	Up to 50 kg	0.16% rdg	
			50 Kg to 1 t	0.36% rdg	
			1 to 2 t	0.21% rdg	
			2 to 20 t	0.1% rdg	
			20 to 60 t	0.23% rdg	

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