



جمهوری اسلامی ایران  
Islamic Republic of Iran



## 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 Bldg, No. 3, Pirzadeh alley, Nesa  
AVE, Mirdamad Blvd, Tehran, I.R. IRAN

Tel: +98 21 22909455

Fax : +98 21 22912981

Web Site : www.sgk-ir.com

نشانی: تهران ، بلوار میرداماد، خیابان نسا، کوی پیرزاده، پلاک ۳،  
ساختمان سام

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 according to accreditation scope are listed in  
6 page/s 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 ۶ برگ پیوست آمده است را داراست.

NACI Registration No. : NACI/Lab/150

Initial Accreditation Date and Place: 2012.01.15-Tehran

Renewal Date : 2015.01.14

Expiry Date : 2018.01.14

شماره گواهینامه تایید صلاحیت : NACI/Lab/۱۵۰

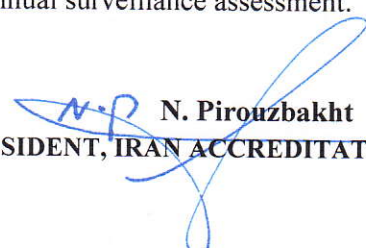
تاریخ و محل صدور اولیه گواهینامه : ۱۳۹۰/۱۰/۲۵ - تهران

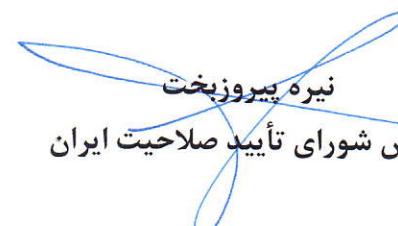
تاریخ صدور مجدد گواهینامه : ۱۳۹۳/۱۰/۲۴

تاریخ خاتمه اعتبار گواهینامه : ۱۳۹۶/۱۰/۲۳

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

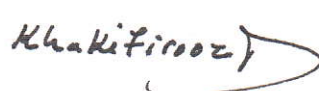
حفظ اعتبار در طول دوره منوط به استمرار انطباق با ضوابط مربوطه و  
اخذ تاییدیه در ارزیابی های مراقبتی سالانه است.

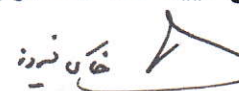
  
N. Pirouzbakht  
PRESIDENT, IRAN ACCREDITATION COUNCIL

  
نیره پیروزبخت  
رئیس شورای تایید صلاحیت ایران

A.R. Khakifirooz  
NACI PRESIDENT

علیرضا خاکی فیروز  
رئیس مرکز ملی تایید صلاحیت ایران

  
Khakifirooz

  
خاکی فیروز

## گواهینامه تایید صلاحیت آزمایشگاه Laboratory Accreditation Certificate

### Annex Accreditation Scope of Sanjesh Gostar Kaveh Laboratory

#### 1-Temperature

| No. | Quantity, measuring instrument, material measure |                     | Range           | Best measurement capability(±) |
|-----|--------------------------------------------------|---------------------|-----------------|--------------------------------|
| 1   | Liquid in glass thermometer                      |                     | -40 to 300 °C   | 0.04 °C                        |
| 2   | Bimetal & filed system thermometer               |                     | -40 to 300 °C   | 0.04 °C                        |
| 3   | Resistance thermometers(RTDs)                    |                     | -40 to 140 °C   | 0.017 °C                       |
|     |                                                  |                     | 140 to 650 °C   | 0.03 °C                        |
| 4   | Thermocouple                                     |                     | -40 to 1100 °C  | 0.95 °C                        |
|     |                                                  |                     | 1100 to 1200 °C | 1.95 °C                        |
| 5   | Non-contact thermometer                          |                     | -30 to 140 °C   | 0.3 °C                         |
|     |                                                  |                     | 140 to 1200 °C  | 2.2 °C                         |
| 6   | Water triple point                               |                     | ---             | 0.0005 °C                      |
| 7   | Environment                                      |                     | -40 to 650 °C   | 0.01 °C                        |
|     |                                                  |                     | 650 to 1100 °C  | 0.95 °C                        |
|     |                                                  |                     | 1100 to 1200 °C | 1.95 °C                        |
| 8   | Indicator                                        | PT100, PT200, NI120 | -200 to 800 °C  | 0.1 °C                         |
|     |                                                  | Type R, S, B        | -200 to 1800 °C | 0.3 °C                         |
|     |                                                  | Type N              | -200 to 1300 °C | 0.2 °C                         |
|     |                                                  | Type J, K           | -200 to 1400 °C | 0.2 °C                         |
|     |                                                  | Type E, T           | -250 to 1000 °C | 0.1 °C                         |

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2-Humidity

| No. | Quantity, measuring instrument, material measure | Range        | Best measurement capability(±) |
|-----|--------------------------------------------------|--------------|--------------------------------|
| 1   | Humidity measurement                             | 10 to 95 %RH | 2.6% RH                        |
| 2   | humidity chambers                                | 10 to 90 %RH | 2% RH                          |

3-Pressure

| No. | Quantity, measuring instrument, material measure             | Range            | Best measurement capability(±) |
|-----|--------------------------------------------------------------|------------------|--------------------------------|
| 1   | Pneumatic pressure gauge                                     | -0.85 to 100 bar | 0.005%RDG                      |
| 2   | Hydraulic pressure gauge                                     | 0 to 1200 bar    | 0.007%RDG                      |
| 3   | Pneumatic DWT                                                | Up to 27 bar     | 0.007%RDG                      |
| 4   | Hydraulic DWT                                                | Up to 1200 bar   | 0.007%RDG                      |
| 5   | Electromechanical pressure gauge(transmitters & transducers) | Up to 1200 bar   | 0.007%RDG                      |
| 6   | Pressure switch & safety valves                              | Up to 1200 bar   | 0.007%RDG                      |

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4-mass

| No. | Quantity, measuring instrument, material measure | Range                                               | Best measurement capability(±)               |
|-----|--------------------------------------------------|-----------------------------------------------------|----------------------------------------------|
| 1   | weight                                           | 1mg to 10 mg<br>10mg to 2 kg<br>500gr<br>2 to 20 kg | Class F2<br>Class F1<br>Class F2<br>Class F2 |
| 2   | balance                                          | Up to 20 kg                                         | I , II                                       |
| 3   | scale                                            | Up to 2000 kg                                       | ---                                          |

5-Volume

| No. | Quantity, measuring instrument, material measure | Range          | Best measurement capability(±) |
|-----|--------------------------------------------------|----------------|--------------------------------|
| 1   | Burette , Pipette                                | 0.1 to 100 ml  | 0.0001 to 0.01 ml              |
| 2   | Graduated cylinder, Volumetric flask, Pycnometer | 5 to 100 ml    | 0.007 to 0.07                  |
|     |                                                  | 100 to 5000 ml | 0.07 to 0.7                    |
| 3   | Micro pipette                                    | 1 to 100 µl    | 0.006 to 0.01 µl               |
|     |                                                  | 100 to 1000 µl | 0.01 to 0.1 µl                 |

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### Annex Accreditation Scope of Sanjesh Gostar Kaveh Laboratory

#### 6-Chemical

| No. | Quantity,measuring instrument,material measure | Range                            |            | Best measurement capability(±) |
|-----|------------------------------------------------|----------------------------------|------------|--------------------------------|
| 1   | PH Meter                                       | Up to 14 PH<br>-400 to 400 mV    |            | 0.01PH<br>0.01mV               |
| 2   | Conductivity meter                             | UP to 100 μS/cm                  |            | 1.2 μS/cm                      |
|     |                                                | 100 to 2000 μS/cm                |            | 5 μS/cm                        |
|     |                                                | 2000 to 20000 μS/cm              |            | 57 μS /cm                      |
| 3   | Hydraumeter                                    | 0.65.... 1.4 gr/cm <sup>3</sup>  |            | 0.00036 gr/cm3                 |
|     |                                                | 1.4 .... 1.85 gr/cm <sup>3</sup> |            | 0.0008 gr/cm3                  |
| 4   | Refractometer                                  | 1.33-1.42 nD                     |            | 0.00004 nD                     |
|     |                                                | 0-60 %BRIX                       |            | 0.01 % BRIX                    |
| 5   | Spectrophotometer                              | 200-700 nm                       |            | 0.2 nm                         |
|     |                                                | 0-2 A                            | 200-۳۵۰ nm | 0.1 % RDG                      |
|     |                                                |                                  | ۶۰۰-۷۵۰ nm | 0.1 % RDG                      |
| 6   | Alcohol meter                                  | 0-100 %                          |            | 0.04 %                         |

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7-dimension

| No. | Quantity, measuring instrument, material measure | Range          | Best measurement capability(±)                  |
|-----|--------------------------------------------------|----------------|-------------------------------------------------|
| 1   | Calliper type                                    | Up to 100 mm   | $(0.0122 L(\text{mm}) + 0.05) \mu\text{m}$      |
|     |                                                  | 100-1000 mm    | $(0.0128 L(\text{mm}) + 0.082) \mu\text{m}$     |
| 2   | Micrometer type                                  | Up to 100 mm   | $(0.0124 L(\text{mm}) + 0.12) \mu\text{m}$      |
|     |                                                  | 100-1000 mm    | $(0.0132 L(\text{mm}) + 0.11) \mu\text{m}$      |
| 4   | Dial indicator type                              | Up to 100 mm   | $(0.0098 L(\text{mm}) + 0.34) \mu\text{m}$      |
| 5   | Depth gauge type                                 | Up to 100 mm   | $(0.0091 L(\text{mm}) + 0.46) \mu\text{m}$      |
|     |                                                  | 100-1000 mm    | $(0.0128 L(\text{mm}) + 0.16) \mu\text{m}$      |
| 6   | Height gauge type                                | Up to 1000 mm  | $(0.0091 L(\text{mm}) + 0.46) \mu\text{m}$      |
|     |                                                  | 100-1000 mm    | $(0.0128 L(\text{mm}) + 0.16) \mu\text{m}$      |
| 7   | Siever                                           | Full dimension | 1.3 $\mu\text{m}$                               |
| 8   | Square                                           | Up to 400 mm   | 1.4 $\mu\text{m}$                               |
| 9   | Angle gauge & Protractor                         | Up to 180°     | 5 °                                             |
| 10  | Steel tape measure                               | Up to 10 m     | 0.06 mm                                         |
| 11  | Ruller                                           | Up to 1 m      | 0.6 mm                                          |
| 12  | Profile Projector                                | Full dimension | $(0.012L + 0.2) \mu\text{m} \quad L(\text{mm})$ |
| 13  | Filler                                           | Full dimension | 1.3 $\mu\text{m}$                               |
| 14  | Radius ,Gear,step                                | Full dimension | 1.3 $\mu\text{m}$                               |

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### Annex Accreditation Scope of Sanjesh Gostar Kaveh Laboratory

#### 8-force

| No. | Quantity, measuring instrument, material measure | Range             | Best measurement capability(±) |
|-----|--------------------------------------------------|-------------------|--------------------------------|
| 1   | force calibration(tension on laboratory)         | Up to 200 kg      | 0.24% rdg                      |
|     |                                                  | 200kg to 2 Ton    | 0.1%rdg                        |
|     |                                                  | 2 to 20 Ton       | 0.4%rdg                        |
| 2   | force calibration(compression on laboratory)     | Up to 200kg       | 0.24%rdg                       |
|     |                                                  | 200kg to 2 Ton    | 0.1%rdg                        |
|     |                                                  | 2 to 20 Ton       | 0.4%rdg                        |
|     |                                                  | 20 to 40 Ton      | 0.2%rdg                        |
|     |                                                  | 40 to 100 Ton     | 0.1%rdg                        |
| 3   | force calibration(tension on site)               | Up to 200kg       | 0.24%rdg                       |
|     |                                                  | 200kg to 2 Ton    | 0.1%rdg                        |
|     |                                                  | 2 to 10 Ton       | 0.4%rdg                        |
| 4   | force calibration(compression on site)           | Up to 200kg       | 0.24%rdg                       |
|     |                                                  | 200kg to 2 Ton    | 0.1%rdg                        |
|     |                                                  | 2 to 20 Ton       | 0.4%rdg                        |
|     |                                                  | 20 to 40 Ton      | 0.2%rdg                        |
|     |                                                  | 40 to 60 Ton      | 0.1%rdg                        |
| 5   | velocity of compression & tension test           | 0.1 to 500 mm/min | 0.005%rdg                      |
| 6   | movement of compression & tension test           | UP to 300 mm      | 0.01 mm                        |
| 7   | RPM measurement                                  | 0-600 Rpm         | 0.1 Rpm                        |
|     |                                                  | 600-100000 Rpm    | 1 Rpm                          |
| 8   | Timer                                            | up to 3600 second | 0.005 %rdg                     |

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