



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## TECHNICAL ASSOCIATED SERVICES, LLC

7832 FRANKLIN DRIVE  
HUNTINGTON BEACH, CALIFORNIA 92648

Calibration Laboratory CL-153

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with the ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website ([www.iasonline.org](http://www.iasonline.org)).

*This certificate is valid up to February 1, 2022.*



*This accreditation certificate supersedes any IAS accreditation bearing an earlier effective date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS at 562-364-8201.*



A handwritten signature in black ink that reads "Raj Nathan". The signature is written over a horizontal line.

**Raj Nathan**  
President



# SCOPE OF ACCREDITATION

IAS Accreditation Number	CL-153
Accredited Entity	Technical Associated Services, LLC
Address	7832 Franklin Drive Huntington Beach, CA 92648
Contact Name	Terry Summers Service/QC Manager
Telephone	(714) 841-0475
Effective Date of Scope	June 26, 2019
Accreditation Standard	ISO/IEC 17025:2005

## CALIBRATION AND MEASUREMENT CAPABILITY (CMC)<sup>1,2</sup>

CALIBRATION AREA	RANGE	EXPANDED UNCERTAINTY <sup>3</sup> (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
<i>Dimensional</i>			
Dial Indicators	Up to 4 in	0.0012 in	Gage Blocks
Dial Calipers	Up to 6 in 6 in to 12 in	0.0014 in 0.0018 in	Gage Blocks
Digital Calipers	Up to 6 in 6 in to 12 in	700 µin 900 µin	Gage Blocks
Digital Micrometers	Up to 12 in	140 µin	Gage Blocks
Extensometer	Up to 1 in	0.04 % RNG	Linear Calibrator, ASTM E83
<i>Mechanical</i>			
Force-Compression and Tension	22 lbf to 5,000 lbf	0.09 %	Load Cell, ASTM E4
	100 lbf to 5,000 lbf	0.09 %	
	960 lbf to 20,000 lbf	0.12 %	
	2,500 lbf to 100,000 lbf	0.12 %	
	14,000 lbf to 500,000 lbf	0.12 %	
	32,000 lbf to 1,000,000 lbf	0.11 %	
Balances and Scales	0 g to 211 g	0.68 mg	Class S1 Weights Class F Weights Class F Weights
	0 kg to 60 kg	6.5 g	
	0 lb to 1,000 lb	0.35 lb	
Torque Wrench	Up to 2,000 lbf-ft	0.5 % RNG	Torque Transducer
<i>Thermal</i>			
Oven	Up to 1200 °C	0.9 °C	Digital Thermometer, Thermocouple

<sup>1</sup>The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a specific coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than that provided in the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

<sup>2</sup>If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.



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## CALIBRATION AND MEASUREMENT CAPABILITY (CMC)<sup>1,2</sup>

CALIBRATION AREA	RANGE	EXPANDED UNCERTAINTY <sup>3</sup> (±)	TECHNIQUE, REFERENCE STANDARD, EQUIPMENT
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<sup>3</sup>When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

RNG = Range