# International Accreditation Service, Inc.

# CERTIFICATE OF ACCREDITATION

*This is to signify that*

**INyMET**

SALVATIERRA 32-5, COL. SAN BARTOLO ATEPEHUACAN
D.F. 07730 MEXICO

Calibration Laboratory CL-101
*(Revised March 1, 2004)*

has demonstrated compliance with the ISO/IEC Standard 17025, *General criteria for the competence of testing and calibration laboratories*, and has been accredited commencing December 1, 2004, for the calibration discipline(s) listed in the approved scope of accreditation.

*(see attached scope of accreditation for measurement area or type of test, range or quantity, best measurement capability, technique reference, standard equipment or unique conditions)*

Patrick V. McCullen
Vice President

C. P. Ramani, P.E.
President

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation, revocation, or expiration of accreditation. See the IAS *Accreditation Listings* on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 699-0541. Print Date: 03/16/2005

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## SCOPE OF ACCREDITATION

Calibration Laboratory CL-101

INyMET
Salvatierra 32-5, Col. San Bartolo Atepehuacan
D.F. 07730 Mexico

Javier Garcia
Quality Assurance Manager
+52-55-5754-3087

| MEASUREMENT AREA | RANGE & RESOLUTION | BEST MEASUREMENT CAPABILITY[1, 2] (BMC) (±) | TECHNIQUE, REFERENCE STANDARD, EQUIPMENT |
|---|---|---|---|
| Calipers (Vernier and dial) | 0-150 mm/0,02 mm<br>0-300 mm/0,02 mm<br>0-600 mm/0,02 mm<br>0-1000 mm/0,02 mm | 12 µm<br>14 µm<br>16 µm<br>18 µm | Gauge blocks |
| Calipers (Digital-electronic) | 0-150 mm/0,01 mm<br>0-300 mm/0,01 mm | 8 µm<br>10 µm | Gauge blocks |
| Outside Micrometers | 0-25 mm/0,001 mm<br>0-50 mm/0,001 mm<br>0-25 mm/0,01 mm<br>0-50 mm/0,01 mm<br>0-300 mm/0,01 mm | 0.7 µm<br>0.8 µm<br>7 µm<br>9 µm<br>12 µm | Gauge blocks |
| Inside Micrometer | 5-25 mm/0,01 mm<br>10-30 mm/0,01 mm | 8 µm<br>8 µm | Gauge blocks & gauge block holder |

December 1, 2004
Commencement Date

C. P. Ramani, P.E.
President

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|---|---|---|---|
| Depth Micrometer | 0-25 mm/0,01 mm<br>0-50 mm/0,01 mm | 8 µm<br>9 µm | Gauge blocks |
| Micrometer Head (Mechanical) | 0-25 mm/0,01 mm<br>0-50 mm/0,01 mm | 7 µm<br>9 µm | Gauge blocks |
| Height Gauges (Vernier & dial type) | 0-300 mm/0,02 mm<br>0-600 mm/0,02 mm<br>0-1000 mm/0,02 mm | 15 µm<br>18 µm<br>20 µm | Gauge blocks, long gauge blocks and electronic pick-up |
| Height Gauges (Digital-electronic) | 0-600 mm/0,001mm<br>0-1,000 mm/0,001 mm | 2 µm<br>3,5 µm | Gauge blocks |
| Dial Indicators (Plunger type) | 0-25 mm/0,001 mm (Electronic)<br>0-10 mm/0,01 mm (Mechanical)<br>0-100 mm/0,001 mm (Electronic) | 1,5 µm<br>8 µm<br>2,6 µm | Gauge blocks |
| Dial Indicator (Lever type) | 0-2 mm/0,01 mm | 8 µm | Gauge blocks |
| Electrical Comparator (Analogue/digital display) | 0-50 mm/0,0001 mm | 0,4 µm | Gauge blocks |

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|---|---|---|---|
| End Standards | 25 mm<br>50 mm<br>100 mm<br>200 mm<br>500 mm<br>1,000 mm | 1 µm<br>1,5 µm<br>2 µm<br>2,2 µm<br>3,8 µm<br>7 µm | Gauge Blocks, long gauge blocks and electronic pick-up |
| Scales/Steel Rules/Steel Tapes | up to 50 meters | (0,5 + 0,021 L) mm,<br>Where L is in meters | |
| Bevel Protractor | 0-360°/5 mins | 35 secs | Angle gauges |
| Surface Plate | up to 1 meter x 1 meter | 3 µm | Using precision level of 0,02 mm/m sensitivity |

1"Best Measurement Capability" is the smallest uncertainty of measurement that the laboratory can achieve within its scope of accreditation and is expressed as uncertainty at 95% level of confidence, using a coverage factor of k = 2.

2 Uncertainty of measurement for calibrations performed on-site may be larger than those certified above.

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