

Schedule of Accreditation



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| Organisation Name | Maha Ireland Ltd |
| Trading As | |
| INAB Reg No | 287C |
| Contact Name | Eoin Mallon |
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| Email | eoin.mallon@mahaireland.ie |
| Website | http://www.mahaireland.ie |
| Accreditation Standard | EN ISO/IEC 17025 C |
| Standard Version | 2017 |
| Date of award of accreditation | 31/05/2011 |
| Scope Classification | Metrology |
| Services available to the public ¹ | Yes |

¹ Refer to document on interpreting INAB Scopes of Accreditation

| Sites from which accredited services are delivered | |
|--|--|
| (the detail of the accredited services delivered at each site are on the Scope of Accreditation) | |
| Name | Address |
| 1 Head Office | 629 Jordanstown Avenue, Greenogue Business Park, Rathcoole, Dublin |

Scope of Accreditation

Head Office

Metrology

Category: B

| Metrology field - Calibrated Device Type | Measured quantity | Calibration range | Expanded Measurement Uncertainty | Std. ref/SOP | Products | Remarks |
|--|---|--------------------------------|----------------------------------|------------------------------------|----------|---------|
| 101 Mass - .99 Other | Suspension tester - weight of vehicle axle at | 1200 kg | 15 kg | In-house documented method MICP 06 | | |
| | | 400 kg | 9 kg | In-house documented method MICP 06 | | |
| | | 800 kg | 13 kg | In-house documented method MICP 06 | | |
| 102 Length/Distance/Angle/Area - .99 Other | Headlight tester laser beam | +3.5 % on X axis & 0 on Y axis | 0.24 % | In-house documented method MICP 01 | | |
| | | 0 on X axis & 0 on Y axis | 0.24 % | In-house documented method MICP 01 | | |
| | | 0 on X axis & -3.5 % on Y axis | 0.24 % | In-house documented method MICP 01 | | |
| | Side slip tester - horizontal | 0 mm to +21 mm | 0.22 mm | In-house documented | | |

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|-----------------------|---|--------------------|---------|------------------------------------|--|--|
| | displacements across five points including zero | | | method MICP 05 | | |
| | | 0 mm to -21 mm | 0.22 mm | In-house documented method MICP 05 | | |
| | Suspension tester - static displacement across four vertical points, including zero | 0 mm to 30 mm | 0.31 mm | In-house documented method MICP 06 | | |
| 115 Force - .99 Other | Roller brake tester (0 to 12.5 kN) | 0.5 kN to 1.5 kN | 0.12 kN | In-house documented method MICP 02 | | |
| | | 1.5 kN to 2.5 kN | 0.12 kN | In-house documented method MICP 02 | | |
| | | 10.5 kN to 12.5 kN | 0.19 kN | In-house documented method MICP 02 | | |
| | | 2.5 kN to 3.5 kN | 0.13 kN | In-house documented method MICP 02 | | |
| | | 3.5 kN to 4.5 kN | 0.13kN | In-house documented method MICP 02 | | |
| | | 4.5 kN to 5.5 kN | 0.14 kN | In-house documented method MICP 02 | | |
| | | 5.5 kN to 6.5 kN | 0.14 kN | In-house documented method MICP 02 | | |
| | | 6.5 kN to 7.5 kN | 0.14 kN | In-house documented method MICP 02 | | |
| | | 7.5 kN to 8.5 kN | 0.16 kN | In-house documented method MICP 02 | | |
| | | 8.5 kN to 10.5 kN | 0.17 kN | In-house documented | | |

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|---------------------------|--|--|-----------------------|------------------------------------|--|--|
| | | | | method MICP 02 | | |
| | Roller brake tester (0 to 40.5 kN) | 0.5 kN to 1.5 kN | 0.20 kN | In-house documented method MICP 02 | | |
| | | 1.5 kN to 3.5 kN | 0.20 kN | In-house documented method MICP 02 | | |
| | | 11.5 kN to 20.5 kN | 0.38 kN | In-house documented method MICP 02 | | |
| | | 20.5 kN to 30.5 kN | 0.49 kN | In-house documented method MICP 02 | | |
| | | 3.5 kN to 7.5 kN | 0.22 kN | In-house documented method MICP 02 | | |
| | | 30.5 kN to 40.5 kN | 0.63 kN | In-house documented method MICP 02 | | |
| | | 7.5 kN to 11.5 kN | 0.24 kN | In-house documented method MICP 02 | | |
| 122 Emissions - .99 Other | Emissions tester for diesel power motor vehicles - Light Absorption Coefficient Units (K values) | 0 m ⁻¹ to 3.8 m ⁻¹ | 0.070 m ⁻¹ | In-house documented method MICP 03 | | |

Calibration and Measurement Capability (CMC) is expressed in terms of the following parameters:

- *Measurand or reference material*
- *Calibration or measurement method or procedure and type of instrument or material calibrated/measured*
- *Measurement range and additional parameters where applicable*
- *Measurement uncertainty.*

Measurement uncertainty shall be reported in compliance with EA 4/02 "Evaluation of the Uncertainty of Measurement in Calibration".

In accordance with INAB policy, uncertainties are calculated for an estimated confidence level of not less than 95%.

Head Office

Metrology

Category: D

| Metrology field - Calibrated Device Type | Measured quantity | Calibration range | Expanded Measurement Uncertainty | Std. ref/SOP | Products | Remarks |
|--|---|--------------------|----------------------------------|---------------------------------------|----------|---------|
| 122 Emissions - .01 Gas analysers | Emissions tester for petrol power motor vehicles - CO (Carbon Monoxide) | 0 - 3.7 vol % | ± 2.1% | In-house documented method MICP 04-02 | | |
| | Emissions tester for petrol power motor vehicles - CO ₂ (Carbon Dioxide) | 0 - 14.4 vol % | ± 1.3% | In-house documented method MICP 04-02 | | |
| | Emissions tester for petrol power motor vehicles - Propane HC (Hydrocarbons) | 0 - 2050 ppm vol % | ± 1.2% | In-house documented method MICP 04-02 | | |

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