National Metrology Laboratory

Schedule of Torque Calibration

Issue No: 02	Issue date: 12 May 2004

SUMMARY OF SERVICES

Calibration performed on permanent laboratory premises

Torque
Torque transducers with electronic indicators
Torque analog clocks and analysers
Torque closure meters

National Metrology Laboratory

Issue No: 02	Issue date: 12 May 2004

DETAIL OF CALIBRATION SERVICE

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as An Expanded Uncertainty (k=2)	Remarks
TORQUE			**NOTES**
Electronic torque transducers with digital indicator (calibrated using NML beam and weight standard).	0.005 Nm – 1000 Nm	0.02%	**Notes** 1. The uncertainty quoted is for the application of the calibration torque and does not take into account the characteristics of the device being calibrated. 2. Calibrations are carried out at a reference temperature of $20^{o}C$. 3. Calibrations may be given in units of torque as appropriate.
Mechanical torque indicating devices with analog indication (calibrated using NML beam and weight standard)	0.005Nm – 1000 Nm	0.02%	
Electronic and mechanical torque measuring devices (calibrated by comparison with NML reference torque transducers)	0.05Nm to 0.5Nm – Clockwise 0.05Nm to 0.5Nm – Anti Clockwise 0.5Nm to 1Nm – Clockwise 0.5Nm to 1Nm Anticlockwise 1 Nm – 1000 Nm	1.2% 2.3% 0.5% 0.72% 0.5%	