

Approval & Reception Procedure

DQN – Quality and Standardization Department	
Testing Equipment for Monitoring Works	文件編號: ARP/DQN/001
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1. Reference standard

- CNAS-GL033:2018 Guidance for Metrological Traceability of Typical Inspection and Testing Equipment in Construction Engineering Field
- GB50497-2019 Technical standard for monitoring of building excavation engineering

2. Approval procedures

- According to the requirement of the monitoring projects, the designation, amount and specification of the testing equipment should be submitted.
- The calibration certificate (within one year) of each testing equipment should be submitted. The calibration certificate should be traceable consisting of reference for calibration, calibration standards, calibration results (e.g. indication error, hysteresis, repeatability, interpolation formula, reproducibility, correction values, etc.) to ensure the accuracy complied with the requirement of the monitoring projects.

3. Quality Control

- If applicable, LECM can sample not less than 5% of the total amount of the monitoring equipment for verification of their performance, or examining and witnessing the relevant calibrations.

4. Monitoring equipment

The testing equipment used for monitoring works are listed (but not limited to) below

Total station	Stress meter
Digital level	Strain gauge
Theodolite	Caliper
Inclinometer	Axial force gauge
Tiltmeter	Multipoint displacement sensor
Micrometer	Vibration sensor
Crackmeter	Piezometer
Dial gauge	Pore water pressure meter