



## UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

VIENNA INTERNATIONAL CENTRE  
P. O. BOX 300, A-1400, VIENNA, AUSTRIA

TELEPHONE: (+43) 26026-0 TELEGRAPHIC ADDRESS: UNIDO VIENNA, <http://www.unido.org>, FAX: 26026-6815

Ref.: NM/AG

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### **INVITATION TO BID No. 1100201695**

#### **CLARIFICATION NOTICE No. 1**

Kindly note below additional information with regard to the invitation to bid 1100201695:

**Question 1:** LOT 9 - will you use master Ubbelohdes (with up to 60 cm length (ASTM D2162) or normal viscometers (up to 29 cm) conform ISO 3105, IP71, ASTM D445/6. ?

**Answer 1:** It is expected that Normal viscometers (for up to the 29 cm Ubbelohde glass capillary tubes) will be delivered with all integrated electronics fulfilling the specified metrological parameters according to OIML R 069 (metrological requirements) ([www.oiml.org](http://www.oiml.org)) with min. 2 openings with lids.

**Question 2:** LOT 9 - do you require bath liquid for the bath, viscosity accessories like holders, timer, reference fluids, etc.

**Answer 2:** The below accessories are expected to deliver:

- a) set of glass capillary tubes, produced according to ASTM D 446 and IP 71 for the defined measuring range and equipped with measuring heads and electronic detection system
- b) holders equipped with measuring heads and electronic detection timing system,
- c) bath liquid (other than water) for high measuring temperatures
- d) certified reference materials for the calibration points within the measuring range with valid certificates.
- e) other accessories such as PC software for data treatment, cleaning fluids, etc.

**Question 3:** LOTs 15 and 17: What would be the application? Which type and size of material and specimens will be tested?

**Answer 3:** The application is specified in "Primary propose". Specifically,

#### **Question 4: LOT 15**

The equipment will be used to provide calibration of the pressure instruments/measurement standards as: high accuracy pressure gauges, pressure sensors, pressure gauges with output signal, pressure calibrators, pressure controllers, etc.

**Question 5: Regarding LOT 17**

The equipment will be used to provide calibration of the material testing machines - tensile and compression - including concrete testing presses.

The laboratory could apply measurement methods documented in the below standards:

- ISO 7500-1:2018: Metallic materials - Calibration and verification of static uniaxial testing machines -Part 1: Tension/compression testing machines - Calibration and verification of the force-measuring system;
- EN 12390-4:2000: Testing hardened concrete D Part 4: Compressive strength – Specification for testing machines

Best regards,



**Ms. Natalie Maabdi**

**Contracts Officer / Responsable de Contrats**

Procurement Services / Service des Achats COR/PRO

United Nations Industrial Development Organization

Tel: +43 1 260 26 4814

E-Mail: [N.Maabdi@unido.org](mailto:N.Maabdi@unido.org)



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