



***Request for Quotation (RFQ) for the supply and installation of an Environmental Test Chamber/Wet Chamber for Conditioning Samples to the CSIR for the Composites Innovation Centre (CIC) at Tshwane University of Technology (TUT) in Pretoria***

***Request for Quotation number: 9130/25/02/2019***

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| Date of re-issue  | 11/02/2019                               |
| Submission closing date and time:<br>Queries closing date and time: | 25/02/2019 – 16:30<br>18/02/2019 – 16:30 |
| Contact details and submission of quotations is via email only to:  | tender@csir.co.za                        |
| Business hours  | 08:00 – 16:30                            |

## **1 INVITATION FOR QUOTATION**

Quotations are hereby invited for the supply and installation of an Environmental Test Chamber/Wet Chamber for Conditioning Samples to the CSIR for the Composites Innovation Centre (CIC) at Tshwane University of Technology (TUT) in Pretoria.

## **2 QUOTATION REQUIREMENTS**

### **1 x CLIMATIC CHAMBER**

#### **a. General**

- Capable of conducting temperature/humidity tests on aerospace/automotive composite samples according to relevant international standards used in the automotive and aerospace industries e.g. IEC 60068.
- Approximate volume 150 litres.
- 304L grade stainless steel inner housing.
- To have at least 4 x stainless steel shelves for samples.
- To include a touch screen panel PC.
- Complete with a programmable control system.

- To include external communications protocol (Ethernet/USB).
- Allow exporting of raw test results to MS Excel, Word etc.
- Test results memory.
- To have an alarm indicator.

**b. Thermal test specifications**

- Temperature range to be inclusive of the range -55 to 100 °C.
- Temperature rise speed variation (°C/min) to be according to IEC 60068-3-5 standard.
- Temperature drop speed variation (°C/min) according to IEC 60068-3-5 standard.
- Temperature regulation stability to be  $\pm 0.1$  to  $\pm 0.3$ .
- Temperature homogeneity in space, up to +180°C to be  $\pm 0.4^\circ\text{C}$  to  $\pm 1.5^\circ\text{C}$ , Not including measurement uncertainties.
- Temperature gradient up to +180°C to be as per IEC 60068-3-5:  $\leq 2$ .

**c. Climatic test specifications**

- Temperature range to be 10 to 95 °C.
- Dew point temperature range to be -5 to 95 °C.
- Relative humidity (RH) range for a temperature from 10 to 95 °C to be 5 to 98 (%RH).
- Relative humidity regulation stability to be  $\pm 2$  (%RH).
- Maximum humidification water consumption to be less than 2 litres per hour.

**d. Demineralised Water Generator**

**e. Example as follows:**



**Important:**

- Local support in South Africa is required.
- Brochure with specifications to be included with the quotation
- Delivery and installation at Tshwane University of Technology (TUT) in Pretoria

**3 EVALUATION CRITERIA**

- 3.1 Selection of suppliers will be based on the 80/20 preference point system.
- 3.2 Indicate valid B-BBEE status on quotation. No B-BBEE status will equal zero points.
- 3.3 Indicate CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use [www.csd.gov.za](http://www.csd.gov.za) to register.
- 3.4 No order will be issued or no contract will be signed without a valid CSD number.

#### **4 PRICING QUOTATION**

- 4.1 Price needs to be provided in South African Rand (excl. VAT), with details on price elements that are subject to escalation and exchange rate fluctuations clearly indicated.
- 4.2 Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, etc.
- 4.3 Payment will be according to the CSIR Payment Terms and Conditions:
  - 4.3.1 The Invoice amount will be paid within forty-five (45) days after receipt of a valid Invoice, subject thereto that the Goods and/or Services fully complied with the specifications of the Purchase Order.
  - 4.3.2 No deposits/prepayments will be allowed.

#### **5 OTHER TERMS AND CONDITIONS**

- 5.1 The supplier shall under no circumstances offer, promise or make any gift, payment, loan, reward, inducement, benefit or other advantage, which may be construed as being made to solicit any favour, to any CSIR employee or its representatives. Such an act shall constitute a material breach of the Agreement and the CSIR shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights.
- 5.2 A validity period of 90 days will apply to all quotations except where indicated differently on the quote.

**6 No goods and/or services should be delivered to the CSIR without an official CSIR Purchase order. CSIR purchase order number must be quoted on the invoice. Invoices without CSIR purchase order numbers will be returned to supplier.**

**7 Note: This is not a Purchase Order.**