



***Request for Quotation (RFQ) for the supply and installation of Fume Extraction Cabinets to the CSIR for the Composites Innovation Centre (CIC) at Tshwane University of Technology (TUT) in Pretoria***

***Request for Quotation number: 5418/18/01/2019***

Date of issue	14/12/2018
Submission closing date and time: Queries closing date and time:	18/01/2019 17/01/2019
Contact details and submission of quotations is via email only to:	tender@csir.co.za
Category:	Manufacture of Machinery and Equipment
Business hours	08:00 – 16:30

## **1 INVITATION FOR QUOTATION**

Quotations are hereby invited for the supply and installation of Fume Extraction Cabinets to the CSIR for the Composites Innovation Centre (CIC) at Tshwane University of Technology (TUT) in Pretoria.

## **2 QUOTATION REQUIREMENTS**

### **a. 2 x FUME EXTRACTION CABINETS**

- Work surface area 1800 mm x 700 mm
- 2100 (L) x 720 (D) x 1120 (H)
- Unit to have a face velocity of between 0, 5 and 0, 7 m/s across the fume cabinet
- **1x** exhaust fan (SEAT 35 centrifugal fan)
- **1x** Ducting (up to 12 meters)
- **1x** removable, refillable activated carbon modules for the absorption of any fumes or odours to be included in each unit

- Unit should be side accessible
- Sliding sash: clear 6mm toughened safety glass
  - The cabinet shall offer operator protection achieved through and inward flow of laboratory air through the bottom aperture below the safety glass sash.
  - The air intake velocity shall range from not less than 0,5 m/s with the sash fully open to approximately 1.2 m/s with the sash fully closed.
- **External Section**
  - The outer cabinet shall be constructed from mild steel epoxy powder coated white
  - The sides shall be 150mm wide that house all services with removable side panels for access to the services
  - The front section of the sides shall house remote handles for the taps for both wet and dry services
  - The width of the unit shall be so that it can be passed through a standard door width and shall not exceed 720mm.
  - 2 x 16AMP power points
- **Internal Section**
  - Non-corrosive heat and chemical resistant moulded fibreglass internal liner
  - The inner casing shall be a contour moulded resin impregnated fiberglass shell.
  - No nuts and bolts shall protrude into the work area
  - The drip cup will be recessed and sealed firmly without crevices
  - The internal baffle shall be of acid resistant resin-impregnated fiberglass and secured by polypropylene stand-offs.
  - The Inner liner shall comprise of the following:
    - Inner surface - NPG Gel coat
    - First Layer - “C” glass surface tissue with vinyl ester resin
    - Second - 450g chop strand mat with vinyl ester resin
    - Third Layer - 2mm core mat with vinyl ester resin
    - Fourth Layer - 1 x 450g chop strand mat with isothalic resin
    - Outer surface - Flow coat to suit the same colour as the internal gel coat
- **Lighting**
  - Single fluorescent light and will be fitted with 2 x 15Amp plug sockets on the side service panel
  - The light shall be of a vapour proof incandescent type situated at the top of the cabinet where maximum light dispersant can be achieved.

- The lighting shall provide a minimum of 800 LUX over the entire work surface.
- The lighting shall be housed in an external housing and sealed off from the unit by means of a safety glass diffuser.
- A silicone gasket will seal the diffuser from the light housing.
- The light shall be of a vapour proof incandescent type situated at the top of the cabinet where maximum light dispersant can be achieved.
- **Extraction System**
  - Fan to be constructed entirely from PVC with an external motor.
  - The fan shall be correctly sized according to the size and volume of the cabinet required.
  - All ductwork shall be from class 4 PVC ducting.
  - All bends and joins to be PVC sealed.
  - The ducting shall be for the sole purpose of extracting fumes and vapour from the specific fume cabinet only and no other duct shall be joined into or tapped from it.
  - The duct outlet shall be set to 1m above the highest point of the roof apex.
- **Include installation, commissioning and training**
- Example of fume extraction cabinet 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.**