



***Request for Quotation (RFQ) for the supply and delivery of a Two-channel Flow Reactor to the CSIR***

***RFQ No. 9352/27/01/2020***

Date of issue:	Friday, 13 December 2019
Closing Date and Time:	Monday, 27 January 2020 at 16h30 ( <b><i>Late tenders will not be considered</i></b> )
Submission and Contact details:	For submission of quotations or any other enquiries: Email: <a href="mailto:tender@csir.co.za">tender@csir.co.za</a> ( <b><i>Please use RFQ No. as subject reference</i></b> )

## **1. INVITATION FOR QUOTATION**

Quotations are hereby invited for the supply and delivery of a Two-Channel Flow Reactor System to the CSIR.

## **2. QUOTATION REQUIREMENTS**

The supplier is required to quote on the following items as per the below tabulated Bill of Quantities (BOQ):

No.	Item Description	Unit	QTY	Unit Price	Total Price
1.	<p>Two-channel flow reactor system.</p> <p><i>The equipment must include the following components and features:</i></p> <ul style="list-style-type: none"> <li>• <i>Stainless steel flow path</i></li> <li>• <i>HPLC selector valves to allow the use of bottled reagent reservoirs or injection loops.</i></li> <li>• <i>Three way valves to allow selection between reagent and solvent lines or waste and collection lines.</i></li> <li>• <i>Pumps: HPLC or Peristaltic or Syringe</i></li> <li>• <i>Pumping rate range: 0.05 mL/min to 50 mL/min per pump</i></li> <li>• <i>Pump pressure sensors</i></li> <li>• <i>System pressure sensor</i></li> <li>• <i>Back pressure regulators for pump and system to 15 bar</i></li> <li>• <i>In-line UV or FTIR detection system</i></li> <li>• <i>Automated control interface</i></li> </ul>	each	1		
2.	Installation, commissioning and training	each	1		
3.	Warranty	each	1		
4.	Shipping / Delivery	each	1		
<b>OPTIONS THAT MUST BE INCLUDED AND SUPPLIED WITH THE TWO-CHANNEL FLOW REACTOR:</b>					

a.	Heated tubular reactor module: <ul style="list-style-type: none"> <li>• <i>Tubular reactor heating range: 30-300°C</i></li> <li>• <i>Tubular reactors with dimensions: Volume 5-60 mL, flow rate up to 100mL/min</i></li> </ul>	each	1		
b.	Mixing chip reactor module: <ul style="list-style-type: none"> <li>• <i>Chip reactor heating range: 30-150°C</i></li> <li>• <i>Mixing chips with dimensions: Volumes 2 ml to 20 mL</i></li> </ul>	each	1		
c.	In-line UV or FTIR detection system <ul style="list-style-type: none"> <li>• <i>Flow-through UV system (220-1050 nm), pressure rated to 35 bar</i></li> <li>• <i>Flow-through FTIR system (400-4000 cm<sup>-1</sup>), pressure rated to 35 bar</i></li> </ul>	each	1		
d.	Automated control interface	each	1		
	<b>Sub-Total</b>				
	<b>VAT @ 15% (RSA suppliers only)</b>				
	<b>Total</b>				

**NB: The supplier is required to submit data sheets of the items they are quoting on and they must be clearly referenced on quotation.**

Additional quotation requirements (These must be submitted with and indicated in quote):

1. The bidder must submit quotation on their official company letterhead.

2. The pricing must be firm and inclusive of all costs required to render/deliver the required goods and/or services to the CSIR.
3. The supplier must quote on all the items listed on the above BOQ.
4. The equipment should come with a minimum two (2) year manufacturer's warranty.
5. Installation and commissioning of equipment must be provided for and included in the quote.
6. Equipment must be supplied with installation, operation and service instructions.
7. Operations and Maintenance services must be provided for a minimum of three years after delivery and commissioning. (i.e. a separate contract may be entered into for the O&M services)
8. Please indicate lead time on quote. (A shorter lead time will be advantageous)
9. Delivery to be made to CSIR Pretoria, South Africa.

### 3. SPECIFICATION REQUIREMENTS

The Two-Channel Flow Reactor must meet the following key minimum specifications and features:

No.	Description / Specification	Bidders to complete	
		Comply with product specification (YES / NO)	Comment:
1	Stainless steel flow path		
2	HPLC selector valves to allow the use of bottled reagent reservoirs or injection loops.		
3	Three way valves to allow selection between reagent and solvent lines or waste and collection lines.		

4	Pumps: HPLC or Peristaltic or Syringe		
5	Pumping rate range: 0.05 mL/min to 50 mL/min		
6	Pump pressure sensors		
7	System pressure sensor		
8	Back pressure regulators for pump and system (15 bar)		
9	In-line UV or FTIR detection system		
10	Automated control interface		

**Mandatory documents required / returnables:**

- Brief company profile clearly showing the company's core business activities.
- Design specifications of the equipment. Provision of sketches or drawings of proposed Two-channel Flow Reactor and provide product datasheets.
- Completed specifications compliance checklist.
- The supplier must be the Original Equipment Manufacturer (OEM) or exclusive and authorized distributor of the required goods. Bidders must provide proof of OEM or exclusive distributorship status on an official company letterhead. *(NB: For distributors, exclusivity must be confirmed by the OEM).*

**NB:** *Non-submission of the above-mentioned documents as well as any deviation from the above quotation requirements and specifications may deem your submission unresponsive and my thus result in your submission not being considered for Price and BBBEE evaluation.*

#### 4. EVALUATION CRITERIA

- 4.1. Selection of suppliers will be based on the 80/20 preference point system.
- 4.2. Provide a valid B-BBEE Certificate, or affidavit indicating the B-BBEE Status level.  
(RSA suppliers only)
- 4.3. No B-BBEE status will equal zero points.
- 4.4. 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.
- 4.5. No order will be issued or no contract will be signed without a valid CSD number.
- 4.6. Elimination Criteria:  
Suppliers will be eliminated under the following conditions:
  - Late submission of Quotes;
  - If supplier does not quote on all items in the BOQ;
  - If supply does not submit quotation on their official company letterhead;
  - If supplier does not quote on the required specifications;
  - Submission at wrong location or incorrect email address (***Please submit electronically to [tender@csir.co.za](mailto:tender@csir.co.za)***);
  - If the supplier fails to submit any of the mandatory/returnable documents.

#### 5. PRICING QUOTATION

- 5.1. 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.
- 5.2. Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, etc.
- 5.3. Payment will be according to the CSIR Payment Terms and Conditions.

**The price should be firm and inclusive of costs and all services required to complete the project.**

**6. OTHER TERMS AND CONDITIONS**

- 6.1. 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.
- 6.2. A validity period of 90 days will apply to all quotations except where indicated differently on the quote.

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

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