

Tuesday, 31 January 2017

IISc/SSCU/NBA/T001/2017

Tender Notification for the Procurement of Valves and Accessories (Last Date for Submission: Feb 17th 2017)

Kindly send your best quotation for the valves and accessories with the following technical specifications on C.I.P. Bangalore basis. Your quotation should clearly indicate the terms of delivery, delivery schedule, estimated delivery date, and payment terms. The tender should be submitted in two separate sealed envelopes - one containing the technical bid and the other containing the commercial bid, both of which should reach us, duly signed on or before 1700 hours on 17th February 2017. Technical bids meeting all the technical specifications of all the components that are listed in this tender notice will be considered for commercial evaluation.

The bids should be addressed to:

*The Chairman,
Solid State and Structural Chemistry Unit
Indian Institute of Science (IISc)
Bengaluru, India - 560012.*

The sealed bids should be sent to:

*Dr. Naga Phani B. Aetukuri
Assistant Professor,
Solid State and Structural Chemistry Unit
Indian Institute of Science (IISc)
Bengaluru, India - 560012.
Ph: +91-80-22933534
email:phani@sscu.iisc.ernet.in*

Technical Specifications for Valves and Accessories

1. Product 1: Shut off Valve

Product should meet the following specifications:

- 1.1. Manually Actuated
- 1.2. 1/16" compression fitting (nut and ferrule based)
- 1.3. 0.75 mm Bore
- 1.4. Manually Actuated
- 1.5. Fluorocarbon based seal
- 1.6. Low dead volume (<5 µL)
- 1.7. Material of construction: SS 316 or higher grade
- 1.8. Quantity – 1

2. Product 2: 6 port switching/sampling valve

Product should meet the following specifications:

- 2.1. 6 inlet/outlet ports
- 2.2. Should feature switching between 2 positions
- 2.3. Air Actuated
- 2.4. 1/16" compression fitting (nut and ferrule based)
- 2.5. 0.75 mm bore
- 2.6. Acceptable Leak rate: 10^{-6} atm cc/sec
- 2.7. Material of construction: SS 316 or higher grade
- 2.8. Quantity – 1

3. Product 3: Selector Valve

Product should meet the following specifications:

- 3.1. 6 input ports
- 3.2. Single Output port
- 3.3. Manually Actuated
- 3.4. 1/16" compression fitting (nut and ferrule based)
- 3.5. 0.75 mm bore
- 3.6. Acceptable Leak rate: 10^{-6} atm cc/sec
- 3.7. 2-3 inch standoff
- 3.8. Material of construction: SS 316 or higher grade
- 3.9. Quantity – 1

4. Product 4: Stainless Steel Tubing

Product should meet the following specifications:

- 4.1. 1/16" OD compression fitting (nut and ferrule based)
- 4.2. 0.75 mm bore
- 4.3. Material of construction: SS 316 or higher grade
- 4.4. Electrolytically cut
- 4.5. Steam cleaned
- 4.6. Wall thickness tolerance: $\pm 10\%$
- 4.7. OD tolerance: ± 0.003 inch (4.8%)
- 4.8. Allowable working pressure: 10 bar
- 4.9. Precut in dimensions: 10 cm, 30 cm, 50 cm
- 4.10. Quantity – 10 for each dimensions

5. Product 5: 4 way cross

Product should meet the following specifications:

- 5.1. 1/16" OD compression fitting (nut and ferrule based)
- 5.2. 0.75 mm bore
- 5.3. Material of construction: SS 316 or higher grade
- 5.4. Zero Dead Volume
- 5.5. Should connect 4 lines
- 5.6. Quantity = 4

6. Product 6: PEEK Internal Nut

Product should meet the following specifications:

- 6.1. 1/16" OD finger tight compression fitting
- 6.2. Material of construction: Polyether ether ketone Polymer (PEEK)
- 6.3. Quantity = 2

7. Product 7: PEEK Ferrules

Product should meet the following specifications:

- 7.1. 1/16" OD finger tight compression fitting
- 7.2. Material of construction: Polyether ether ketone Polymer (PEEK)
- 7.3. Quantity = 4

8. Product 8: PEEK Plugs

Product should meet the following specifications:

- 8.1. 1/16" OD finger tight compression fitting
- 8.2. Material of construction: Polyether ether ketone Polymer (PEEK)
- 8.3. Quantity = 10

9. Product 9: PEEK Union

Product should meet the following specifications:

- 9.1. 1/16" OD finger tight compression fitting
- 9.2. 0.50 mm bore
- 9.3. Material of construction: Polyether ether ketone Polymer (PEEK)
- 9.4. Quantity = 20
- 9.5. Zero Dead Volume

10. Product 10: PEEK Reducing Union

Product should meet the following specifications:

- 10.1. End1: 1/16" OD finger tight compression fitting
- 10.2. End2: 1/8" OD finger tight/hex fitting
- 10.3. 0.75 mm bore
- 10.4. Material of construction: Polyether ether ketone Polymer (PEEK)
- 10.5. Quantity = 5
- 10.6. Zero Dead Volume

11. Product 11: PEEK 4-Way Cross

Product should meet the following specifications:

- 11.1. 1/16" OD finger tight compression fitting
- 11.2. 0.50 mm bore
- 11.3. Material of construction: Polyether ether ketone Polymer (PEEK)
- 11.4. Quantity = 4
- 11.5. Zero Dead Volume
- 11.6. Should connect 4 lines

12. Terms and Conditions

- 12.1. The lead-time for the delivery of the equipment should not be more than 3 months from the date of receipt of our purchase order.
- 12.2. The indenter reserves the right to withhold placement of final order. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.