This is Request For Quote (RFQ) from global manufacturers for the supply of a Microfluidic controller for cell culture, as part of a tender for the Centre for BioSystems Science and Engineering at the Indian Institute of Science, Bangalore.

Procedure:
1. Please submit hard-copy of the proposal to the address below:

Rachit Agarwal  
Assistant Professor  
Centre for BioSystems Science and Engineering  
3rd Floor, Biological Sciences Building  
Indian Institute of Science  
C V Raman Road, Yeshwanthpur  
Bengaluru – 560012  
Email: rachit(at)iisc(dot)ac(dot)in

2. The deadline for submission of proposals is Friday, 25th February 2022, by 5 pm
3. All documentations in the tender should be in English.
4. Tender should be submitted in two envelops (two bid system):
   A. Technical Bid (Part-A) – The technical proposal should contain a compliance table besides the technical specifications listed in the description section below. The compliance table should include all the items and in the same order. The first column should describe your compliance in a “Yes” or “No” response. If “No” the second column should state the extent of deviation. The “third” column should state the reasons for the deviation if any. The fourth column can be used to compare your solution with that of your competitors or provide details as requested in the technical requirements table below. Suppliers who include any indication of prices in the technical bid will be automatically disqualified.
   B. Commercial Bid (Part-B) – Commercial bid indicating item wise price breakdown for the items mentioned in the technical bid, as per the format provided in tender, and other commercial terms and conditions.

<table>
<thead>
<tr>
<th>Description</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>1. Microfluidic controller for cell culture</td>
<td>Allow live mammalian, bacterial and yeast cell imaging under microfluidics</td>
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<thead>
<tr>
<th>2. Compatibility</th>
<th>Should be compatible with any open inverted microscope</th>
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<td>3. Controls</td>
<td>System should allow perfusion flow control via pneumatic pressure above liquid wells.</td>
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<td>4. Controls</td>
<td>Should provide control of sample temperature (Room temperature to 40°C ± 1 °C), gas levels, humidity, pH etc.</td>
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<td>5. Controls</td>
<td>Gas input requirement should be Clean, dry, premixed gas mixtures containing air, CO₂, N₂, and oxygen (up to 25%), regulated to between 100 kPa and 700 kPa (15 psi and 100 psi)</td>
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6. Controls | System should allow long-term dynamic culture - Up to 10 days undisturbed
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7. Controls | Flow rates should be tunable in a wide range 10-50 µL/h and should be able to provide continuous flow rate for a few days. There should also be a provision of bi-directional flow.
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8. Controls | Should have provision to flow multiple type of fluids in a single run in an automated manner
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9. Supplies | Should have ready to use chambers/plates that can be commercially purchased for mammalian, bacterial and yeast system
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10. Computer | A dedicated computer (64-bit, 8GB RAM, Windows 10 with 1TB hard Disk) must be provided for running the instrument
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11. UPS back-up | UPS or battery for at least 30 mins of use must be provided
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12. Software (part 1) | Software should control fluidics start-up and shutdown
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13. Software (part 2) | Software and system should record all data on flow rate, temperature, humidity and oxygen levels.
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14. Software (part 3) | System should accompany an automated and intuitive software for experimental planning and to control microenvironment
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**Commercial Terms and Conditions**

15. Customer base | Similar or Identical items must have been supplied to 2 laboratories in India. Please provide supporting documents for the same.
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16. Warranty & AMC | Minimum 1 + 2 years
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17. Support | Must have dedicated service and application support for this instrument. Please provide details of the number of trained personnel in India who will provide support
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18. References | Please provide names of two referees that are using this in India
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19. Incoterm | The quotations should be on FOR-IISc Bangalore basis in INR only.
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20. Breakdown addressing | Service call within 48 hours of complaint registration
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21. Documents | Please provide a copy of your GST and PAN and add provide the turnover value for the last 2 years.
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22. Turnover | The turnover for the last 2 years should be more than Rs. 50 lakhs. Please provide audited balance sheet.
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23. Validity | Quote should be valid atleast for 90 days.
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