NOTICE INVITING QUOTATIONS

Sealed Quotations are invited from enlisted/ reputed suppliers for supplying of Equipment under AICTE-MODROB (No. F. 9-80/ RIFD/MODROB/ Policy-1/ 2017-18) grant for Biotechnology Department, of Haldia Institute of Technology.

Specification along with required quantity are detailed below.

Rate should be quoted in the following format including Tax & delivery charges upto Haldia Institute of Technology.

Successful bidders have to deposit 5% of order value during acceptance of the Purchase Order.

You are requested to provide your offer latest by 28 June, 2019 upto 4 PM. Quotation shall be submitted in a sealed envelope super scribing with “Quotation for supply of Equipment under AICTE-MODROB grant for BT Department” to the Principal, Haldia Institute of Technology, P.O. HIT, Haldia, Dist. Purba Medinipur, West Bengal, Pin – 721657, within 28.06.2019 upto 4 PM.

Principal
Haldia Institute of Technology
## Tender for Procurement of Fermenter and its accessories under MODROB-BT project No. F.9-80/RIFD/MODROB/Policy-1/2017-18

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Name of the instrument</th>
<th>Specification</th>
<th>Unit</th>
<th>Rate</th>
<th>GST Amount</th>
<th>Total Ammount including GST</th>
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</table>
| 1.       | **3L Fermenter**       | Standard controller items:-  
- Table top model  
- Rotameter; 1 – 10 SLPM  
- Automatic gas mix module  
- 3 fixed speed front mounted pumps  
- **Operating software for real time monitoring of Fermenter i.e. Agitation, Temperature, DO, pH and Foam level. Data storage function, trend display, Probe calibration, Alarm.**  
- Motor drive  
- Integrated touchscreen  
- 2 universal sensor connections for Analog (pH/DO) or Mettler-Toledo ISM (pH, DO, CO2, Redox)  
- Side panel vessel connections (motor, Heat Blanket, RTD, water)  
- Rear panel connections for power, USB, Ethernet  
- Temperature control system via external chiller  
- **Must include**  
  - Exhaust Condenser  
  - Heater Blanket for vessel  
  - Headplate /Base  
  - Connection Kit  
  - Motor  
  - pH Cable  
  - DO Cable  
  - pH Sensor  
  - DO Sensor  
  - Foam sensor  
- **Vessel Assembly including**  
  - Tubing Kit,  
  - Foam/Level Sensor, 4 inch (100 mm)  
  - Level/Sample Adapter, 12 mm port | 1 Unit |
<table>
<thead>
<tr>
<th><strong>2. Air Compressor</strong></th>
<th><strong>3. Autoclave</strong></th>
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</thead>
<tbody>
<tr>
<td>• Type: Reciprocating</td>
<td>• Type: Vertical</td>
</tr>
<tr>
<td>• Stage: Single</td>
<td></td>
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<tr>
<td>• Motor: Co axial , 2 HP</td>
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<tr>
<td>• Volt/Ph : 230/1</td>
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<tr>
<td>• Air Receiver: 25 LTR</td>
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<tr>
<td>• Working Pressure: 116 PSI OR 8 Bar</td>
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<tr>
<td>• Piston displacement: 7.6 CFM</td>
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<tr>
<td>• 2 Year Warranty</td>
<td>1 Unit</td>
</tr>
<tr>
<td>1 Unit</td>
<td>1 Unit</td>
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</table>
- 20" Dia x 36" Height (7.5 KW) Double walled in construction
- Inner chamber will be made of SS and outer of MS sheet.
- Lid will be made of steel plate.
- Heating system should employ immersion heaters.
- Working pressure: 20 lbs/psi.
- Will be Provided with an adjustable safety valve, pressure gauge,
- Steam release cock, drainage cock & a perforated basket.
- Operates on 440/460V AC.
- Complete with Water failure sensor & pressure control switch.
- Complete with Redial Locking
- Digital, Auto Cut System & Pressure Switch
- **2 Year warranty**

| 4. Associated PC to run the software if applicable | • 8 GB RAM  
• 8 GB ROM  
• Operating system Windows 10  
• Hard Disk 320 gb  
• Intel core i5 processor  
• 17 inch LED monitor  
• UPS  
• Numerical Keyboard and Optical mouse  
• **2 Year Warranty** | 1 Unit |

| 5. Research grade micropipette (a Set of 3) | • A set contain, 1000, 100 and 10 µl | 1 set |

| 6. 1.5 ton Air cooling machine | • 1.5 Ton, 3 star, Split  
• 2 Year warranty | 1 Unit |

| 7 Voltage Stabilizer | • 5 KVA  
• Rated Frequency: 50 Hz  
• Input voltage: 160-260  
• Output voltage: 240  
• Output current: 20.8  
• Type of cooling: Air | 1 Unit |